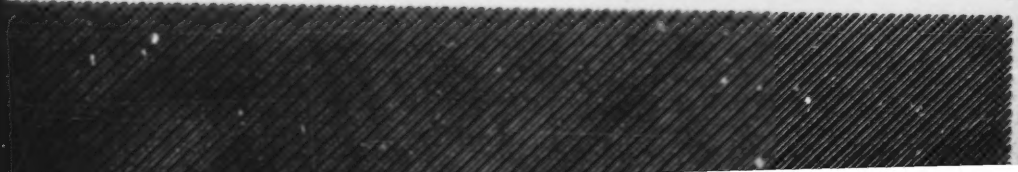
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Petroleum Resources Division

Summary of Operations

1984



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INTRODUCTION

This report is a compilation of information that details the activities of the Petroleum Resources Division and the petroleum industry during 1983. Its purpose is to provide persons interested in the British Columbia petroleum industry with the accomplishments by the industry and explain the role of the Division staff.

The report is divided into three sections (1) Petroleum Resources Division Organization, (2) Review of Industry Activities, and (3) Highlights of Division Activities. In addition, there is a series of tables and illustrations providing important information on the petroleum industry operations in 1983.

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DIVISION ORGANIZATION

The Petroleum Resources Division, under the general direction of a Assistant Deputy Minister, administers the *Petroleum and Natural Gas Act*, the *Geothermal Resources Act*, and the *Petroleum Underground Storage Act*. The Division enforces the regulations made under the three Acts which are the Drilling and Production Regulation, the Geophysical Regulation, the Drilling Licence Regulation, and the Development Road Regulation under the *Petroleum and Natural Gas Act*. Under the *Geothermal Resources Act*, the Division administers the Geothermal Drilling and Production Regulation as well as the Administrative Regulation. The Divison is responsible for all matters related to the disposition of Crown-owned rights as well as the regulation of the exploration, development, and production phases of the petroleum and geothermal industries.

The Division is made up of four Branches, namely, the Engineering and Operations Branch, the Geological Branch, the Titles Branch, and the Offshore Administration Branch.

ENGINEERING AND OPERATIONS BRANCH

The Engineering and Operations Branch, under a Director, is responsible for all engineeering and operational activities of the Petroleum Resources Division.

There are four main functions:

(1) Enforcement of the Drilling and Production Regulation under the *Petroleum and Natural Gas Act* and *Geothermal Resources Act* together with provisions of advice to the Minister with respect to applications made by industry under the Acts.

(2) Collection, filing for Division and public use, and publication of drilling and production statistics, production and disposition data, reservoir, and pool performance data.

(3) Reservoir analysis of all pools in the Province, including maintenance of current production rate forecasts together with data concerning reserves discovered to date and estimates of potential reserves growth.

(4) Providing advice to other government agencies on petroleum and geothermal industry matters.

The Development Engineering Section, under the supervision of the Senior Development Engineer, licences drilling and service rigs, issues well authorizations, and maintains detailed records pertaining to all drilling and production operations.

The Reservoir Engineering Section, under the Chief Reservoir Engineer is concerned with all reservoir engineering aspects of the Branch's activities. The Section is responsible for determination of reservoir and production characteristics of pools in the Province. This involves interpretation of reservoir pressure, rock and fluid properties,

and production data. These parameters are used to forecast ultimate recoveries obtainable from accumulations in the Province, and the rates at which these volumes will be produced. The Section sets oil and gas allowable rates and studies, promotes, and deals with industry recommendations concerning improved recovery schemes.

The District Office (Field Operations Section) located in Charlie Lake is under the Manager - Field Operations. The District organization consists of a field inspection group, a project and geophysical group, a core storage group, and secretarial staff. The District represents the Petroleum Resources Division in the field and is responsible for enforcement of regulations in drilling and production operations and liason with industry and other Ministries. It also collects reservoir and other data, carries out studies of operating procedures, and maintains core and drill sample storage and examination facilities.

GEOLOGICAL BRANCH

The Geological Branch consists of three sections under the general guidance of the Director of Geology. As an integral part of its function, the Branch is responsible for the compilation and assessment of geological and related information concerned with the exploration for and the development of petroleum and geothermal resources within the province; assisting in the framing of development procedures to ensure conservation and the best returns from these resources; estimating the undiscovered potential of the petroleum and geothermal resources base; and providing data and advice to attract and stimulate the private sector to undertake active exploration and development programs.

The Economic Geology Section under the supervision of the Senior Economic Geologist, is accountable for the provision and maintenance of a geological data base which will promote the efficient management of petroleum and natural gas resources. Regional evaluation work carried out on oil and gas productive horizons provide basic data used in assessing the remaining undiscovered potential. These data are also used in the evaluation of lands posted for the disposal of Crown petroleum and natural gas rights.

Reservoir Geology under the supervision of the Senior Reservoir Geologist, is primarily concerned with the detailed knowledge of the geology of oil and gas reservoirs. This knowledge possessed by geological staff is constantly made use of by the Division in the framing of development procedures to ensure conservation and the best returns from these reservoirs.

The Geophysical Section under the supervision of the Senior Geophysicist is responsible for geophysical matters related to the exploration for and the development of petroleum, and geothermal resources. Primary functions include the provision of interdisciplinary services to Geology and Titles in the assessment of information and material submitted in support of land tenure renewal and work requirements pursuant to the *Petroleum and Natural Gas Act*, and the *Geothermal Resources Act*.

TITLES BRANCH

The Titles Branch consists of three sections under the direction of the Commissioner. The Branch is responsible for administering those parts of the *Petroleum and Natural Gas Act*, the *Geothermal Resources Act*, the *Underground Storage Act* and all of the essential regulations relating to and affecting title to the Crown petroleum, natural gas and geothermal rights. In addition, the Branch administers the dispositon of these Crown rights which are held at various times during the year.

The Lease Administration Section, under the Manager, Land Administration, is responsible for the issuing of petroleum and natural gas permits, leases, drilling licences, etc. The Section is also responsible for recording transfers of title and encumbrances that are received and approved. In addition, geophysical licences, notice of commencement of exploratory work, affidavits of work and unit agreements are approved and processed.

The Revenue Section, under the Senior Accounting Clerk, is accountable for the collection of all fees and rental payable to the Crown under the provision of the various Acts for which the Branch is responsible. The Section also receives and accounts for security and performance deposits required under the Acts or regulations.

The Draughting Section, under the Senior Draughting Technician, is reponsible for preparing plats which are affixed to each title documents that is issued, and for updating, on a continuing basis, all of the various seismic road and trail maps, petroleum development road maps and other miscellaneous maps used by the Titles Branch in order to provide effective service to the public. This Section also provides draughting services to other Divisions of the Ministry.

The Titles Branch is responsible for the disposition of rights to explore for geothermal resources. This responsibility includes the administration of the pertinent sections of the Act and associated regulations that deal with obtaining and retention of geothermal permits and leases.

OFFSHORE ADMINISTRATION BRANCH

The Offshore Administration Branch develops British Columbia's policies on offshore oil and gas activites, and coordinates the preparation and planning in this Ministry and others in anticipation of the resumption of exploration on the British Columbia west coast. Although the Branch ceased to exist during the year, its functions are continued under the direction of the Assistant Deputy Minister, Petroleum Resources.

THE PETROLEUM INDUSTRY IN 1984

A major recovery to the drilling activity in the Province was recorded in 1984. After three consecutive years of decreasing drilling and exploration operations, and as a result of a 1983 oil discovery in Desan, the petroleum industry experienced a significant annual growth. Geophysical crew weeks worked jumped from 106 in 1983 to 238 in 1984. The number of wells drilled more than doubled, as 198 wells were drilled in 1984 compared to 76 in 1983. Although the meterage drilled did not show as great a gain as the number of wells, it did increase 79 per cent. The reason the meterage did not increase a proportionate amount is that the oil play responsible for the rise in activity is from a shallow depth relative to other producing zones in the Province.

Production of petroleum and natural gas gained moderately. Increased sales of natural gas to the United States, additional oil reserves resulting from drilling for NORP oil, and the upgrading of producing operations in several fields were responsible for these slight improvements.

Fiscal data for 1984 are as follows:

Value of Production

	$
Crude oil	434 600 112
Field condensate	2 926 650
Marketable natural gas	518 683 014
Gas plant liquids	42 040 280
Totals	998 250 056

Provincial Revenue from the Petroleum Industry

Rentals and fees	42 421 515
Crown reserve dispositions	61 754 228
Oil royalties collected by Ministry	99 594 968
Gas royalties collected by B.C. Petroleum Corporation	113 700 000
Totals	320 541 313

The reform to a new gas marketing system was not implemented during 1984 as a minor legal implication was not resolved. This changeover should take place in 1985 resulting in a new system of gas royalty collection and greater access to markets by individual producers.

DRILLING

The largest gain in the drilling activity was in wildcat type wells. Although development drilling near the established pools increased a respectable 24 per cent, the wildcat footage was up over 200 per cent. Even outpost drilling, in areas considered a step-out to established pools more than doubled in metres drilled.

All types of well statuses increased in 1984 with the largest gain in oil completions, 72 to 27 in 1983. There were 37 gas completions and 54 abandonments compared to 22 and 31 respectively for 1983. In these compilations each zone of a multiple well is counted as one completion. There were six multiple completions made in the Province during 1984.

Many of the wells drilled in the Desan area were inconclusive and have been assigned a 'standing' status. This refers to wells that have production casing set but no oil was recovered or gas flowed from the well. There were 41, mostly along the Desan trend, that fell into this category.

PRODUCTION

Oil production for 1984 was 2 094 155.6 m^3 up 0.75 per cent over 1983. At year end there were 683 producing oil wells in the Province, up 26 since December 1983. The largest producing oil field was Boundary Lake at 702 775.1 m^3, followed by Eagle West 454 321.5 m^3, Inga 132 686.4 m^3 and Peejay 128 242.4 m^3. Peejay production was increased while the other major oil producing fields declined.

The non-associated raw gas production was 7 769 368.1 10^3m^3 an increase of 5 per cent over 1983. The Sierra field was the largest producer at 1 306 074.8 10^3m^3; then Yoyo 1 178 507.7 10^3m^3; Clarke Lake 631 845.6 10^3m^3; and Laprise Creek 417 370.7 10^3m^3. Production from Sierra was up 15 per cent as greater withdrawals were taken from these highly potential wells.

A summary of drilling and production results are shown on Table P8 while detailed production totals for fields are given in Tables P9 and P10.

One application by industry to dispose of North Pine and Belloy produced waters into the Halfway formation in Stoddart West was approved.

An application to have the British Columbia Petroleum Corporation declared a common purchaser of natural gas in the Flatrock Halfway 'E' pool was withdrawn. This followed a detailed Branch study which resulted in the pool being reclassified from gas to oil and approval of a concurrent production scheme.

An application for the "Aitken Creek Underground Gas Storage Project" was approved by the Minister. There were several conditions to the approval, most of which arose through the relationship of the gas storage scheme to the proposed Western LNG Project.

Seven applications for concurrent production schemes and one combined concurrent production and good engineering practice application were reviewed and approved with the condition that gas production be conserved. These were in the following pools; Boundary Lake-Halfway 'F' and 'F', Elm-Halfway 'A', Flatrock-Halfway 'F' (three separate approvals), Fort St John-North Pine 'A' and 'C' (two separate approvals) and Wildmint-Upper Halfway 'A'.

Five good engineering practice approvals were issued for the Cecil Lake-North Pine 'A', Osprey-Halfway 'A' (two separate approvals), Pintail-Coplin 'A', and Roger-Pine Point 'A' pools.

The Kotcho-Slave Point good engineering practice area was enlarged to include the gas spacing area for well d-82-K/94-I-14.

One application for waterflood expansion and modification of royalty rates was reviewed and approved for Inga Unit #2. The expansion included conversion of three oil producers to water injection service. The incremental oil production resulting from the upgrading of the waterflood will qualify for NORP supplement and British Columbia "New" oil royalty rates. The oil price and royalty rates will be administered by the "fixed ratio" method. As a result of the modification, 20 percent of the total Unit oil production will qualify for NORP supplement and British Columbia "New" oil royalty rates.

One application for waterflood modification with some infill drilling was evaluated and approved for Boundary Lake Unit #1. The approval included the conversion of twenty oil producers to water injection service. As a result of the modification, 15.2 percent of the total Unit oil production will qualify for NORP supplement and British Columbia "New" oil royalty rates.

One application for waterflood modification by the conversion of two oil wells to water injection service and drilling two oil wells was reviewed and approved for the Eagle West Bellov Unit #1.

Approved production schemes and assigned allowables during 1984 are given in Tables P4, P5, and P6 respectively.

FIELD ACTIVITY

Early in 1984 it appeared likely that the private sector would build a high-grade road to link the new oil field located at Desan to an existing all-weather road from Fort Nelson. In July 1984 the private operators postponed their decision to construct this important connecting road due to inconclusive test results obtained from the previous winter's drilling. It appeared the whole project was thwarted. However later in the summer the provincial Cabinet made a decision to build this nearly 70 kilometre road with government funding. By year end work was well progressed with the entire right-of-way surveyed and cleared and over half of the road bed was in place. It is anticipated that the road will allow year round operations in the areas as early as mid 1985. The road will also enable heavy equipment to reach gas wells in the Helmet area any time of the year in the event of a blow-out or other emergency, as well as provide access for other development in the area such as agriculture and forestry.

No uncontrolled well blow outs occurred during 1984 nor were there any serious drilling problems. Besides the traditional area of exploration in the northeast corner of the Province, drilling was undertaken in other areas. In the Fernie-Flathead area of southeastern British Columbia, Shell Canada Resources attempted to establish a commercial carbon dioxide reserve. Bow Valley Industries Ltd. were also evaluating the hydrocarbon potential on Graham Island in the Queen Charlottes by determinng the thickness of volcanic rocks and the thermal maturity of the underlying sediments.

During 1984 several major fires occurred at production facilities. An explosion at the Paso Boundary Lake gas plant resulted in a major fire. The explosion and fire damage was confined to the compressor building which had been designed to be fail safe. There were no injuries and the effectiveness of the plant emergency contingency plan must be credited for the smooth evaculation of all personnel. The compressors were in operation within two weeks of the explosion. A second major fire occurred near year end when an ice plug caused the flare knock-out drum at the Petro Canada Yoyo compressor to over pressure and explode. Fire damage mainly to the electrical wiring and estimated at $100,000.00 resulted. No injuries were reported and the station was back on stream in about three weeks.

No major oil spills or environmental incidents occurred during the year. Approximately eight cubic metres of oil were spilled at the Can-Sup Whitehall Inga 6-4-88-23 well. Under normal operating conditions produced fluids from this site are directed to the main Inga battery through a pipeline. However due to a pressure build-up in the line, it became necessary to divert the oil to on-site storage. Due to human error the fluid was not redirected to the battery and the tank overflowed into brush land approximately 100 metres away. This area will be monitored during the spring of 1985 and any requirements for reclamation determined.

Another oil spill of about eight cubic metres occurred at the Scurry Cecil 6-14-84-18 battery. In this instance an air compressor failed causing loss of air to the pneumatic control valve on the group separator oil outlet. The oil level in the separator rose so that oil carried over into the gas leg and, as the gas was being vented to the flare stock, oil was carried out to the stack. The flare was snuffed out by the oil flow and allowed oil to be sprayed by moderate winds onto a hay meadow adjacent to the battery site. Approximately one hectare of land was affected which was quickly rectified.

A salt water spill, about 30 cubic metres in volume, occurred at a well in the Milligan Creek field when a 'rice' nipple at a wellhead separated. The nipple has a Cathodic protection device that is constructed of steel and fibre-glass and pressure rated at 20 000 kPa. As the operating pressure was only 5 500 kPa, no visible defects appeared on the nipple. However when the nipple ruptured, salt water was immediately allowed to mingle with the surface water of the surrounding muskeg.

Extreme amounts of rain during early spring caused severe slope movement along river banks in the Fort St John area. Scurry Rainbow, the main operator in the Eagle and Stoddart areas, hired Hardy Associates (1978) a geo-technical engineering firm, to make an extensive study of the slope stability in the Beatton River, Fort St John Creek and Stoddart Creek watersheds. The study concluded that these slopes are subject to land displacement and movement can occur in the shallow surface soils or along a plane at river level. Most of the problems confronting Scurry resulted from this type of surface movement.

EXPLORATION & DEVELOPMENT

Oil and gas exploration and drilling activity in British Columbia in 1984 more than doubled the activity in 1983. Exploration for oil provided the main impetus, brought on by the Mississippian discovery at Desan, which occurred late in the 1982-83 winter drilling season. Oil plays in the general Fort St. John area also provided a good share of the drilling activity. The overall drilling success ratio for the year was 52 per cent, with 103 oil or gas wells out of the 198 wells drilled. At year end, there were 41 wells in the standing category, which had completed drilling, but had not been fully evaluated. This situation was brought on by the rate of drilling, particularly in the Desan area, where wells were logged and cased, and then had to await the availability of a service rig for the purpose of testing and completing. The testing program often took longer than the drilling time, and combined with the short drilling season in the general Desan area, resulted in a considerable number of wells that were left in the standing category until the following winter.

Exploratory drilling showed a dramatic increase, from 30 wells in 1983, to 127 wells in 1984, an increase of 323 per cent. Most of the increase was due to exploration in the Desan and adjacent areas, where 83 exploratory wells were drilled in this Mississippian play. Other oil plays in the Fort St John area also received the attention of the industry. Outpost wells were drilled in the Eagle, Birch, Beatton, Flatrock and Oak areas, as extensions to existing pools. Gas exploration continued in the Pesh, Adsett, Sikanni and Flatrock areas, as well as Tupper and Kelly, south of Fort St John. In the southeast corner of the Province, three wells were completed in the Flathead area, as part of a continuing exploration program for reserves of carbon dioxide. Exploratory drilling for the year resulted in 46 oil wells and 19 gas wells, for a success ratio of 48.5 per cent. There were 39 standing exploratory wells at year end. The success ratio for exploratory wells may be slightly changed on completion of the testing of these wells.

Development drilling was up from the previous year with 71 wells drilled as compared to 46 in 1983. Of the 71 wells drilled 26 were completed for oil and 12 for gas for an overall success ratio of 54 per cent. Most of the wells drilled were directed to the development of oil which would qualify for the New Oil Reference Price (NORP) under the Federal/Provincial Incentive Program Agreement. The most active routine oil development objectives were the Belloy formation in the Eagle area, and the Charlie Lake formation/Boundary Lake member in the Boundary Lake area. Also development for Mississippian oil in the Desan area, following the 1983 Gulf discovery became brisk. Other oil zone objectives included the Baldonnel formation in the Birch area, and the Halfway formation in the Bulrush, Flatrock, Milligan, Oak, Osprey, Peejay and Wildmint fields. Of the gas wells, two were drilled to retain leases, one in Sierra was a replacement well and the others were incidential to oil targetted wells.

Geophysical activity increased in 1984 concentrating in the general Fort St John area, and to the northwest in the Sikanni area. The Fort St John seismic was programmed over potential oil bearing horizons, while the Sikanni programs were mainly targetted for gas bearing anomalies. The Sukunka structural belt also received a minor amount of exploration activity. The area from Fort Nelson northeast to Helmet received increased seismic coverage, partially for deep gas plays, but mainly to evaluate the Mississippian oil play in the general area.

In the southeast corner of the province, over four hundred miles of seismic profiling were obtained by several operators. Two separate plays are contemplated in this area. In the Fernie/Flathead basin, operators are searching for carbon dioxide reserves indicated by previous wildcatting, which proved the existence of this resource. The use of large quantities of carbon dioxide in enhanced oil recovery schemes has made the production of this gas an economic venture. Further exploration to ascertain the reserves of the basin will be required in the next few years. The area may also contain conventional hydrocarbon reserves and exploration activity is also being focussed on this resource.

To the west of the Fernie basin, in particular the area west of the Rocky Mountain Trench known as the Belt Basin, activity is based on the theory that hydrocarbon bearing sediments underlie the Pre-Cambrian Belt series. These structures are the target of various geophysical programs. The area has yet to be drilled so that rock characteristics and even the type of resource, if any, are undetermined. Interest in this area originated from industry activity in the overthrust area of western Montana to the southeast where a deep exploratory test well is currently drilling.

Several crew weeks of seismic survey were completed on Vancouver Island in the area south of Nanamio and north of Courtenay. These programs used the vibroseis system, which eliminates the need for drilled holes and dynamite. Approximately 90 kilometres of multifold seismic profiles were obtained in these programs. Also on Vancouver Island, a series of shallow test holes were drilled for the purpose of testing coal seams for adsorbed gas, in particular, methane gas. These holes were drilled in the Courtenay, Alberni, and Nanamio areas. The process of coal demethanation and mine methane drainage is currently being assessed as pilot projects in Alberta, Nova Scotia, and in the United States.

Six programs of magneto-telluric soundings were performed in various areas of the Province. This geophysical method attempts to discover the resistivity of the various zones of the earth's crust as an aid to interpreting their thickness, depth, and possible rock types. These surveys were carried out in the general Cranbrook area west of the Rocky Mountain Trench as a possible means of determining the thickness of the existing Pre-Cambrian Belt Series.

LAND ACTIVITY

In addition to the exploration rights that were awarded at the advertised dispositions, over one million hectares were acquired through permit applications. The majority of the filings were in southeastern British Columbia where Raymond T. Duncan of Denver, Colorado acquired exploration rights covering over 900,000 hectares in the Kootenays. A further one million hectares west of this acquisition has been applied for by Duncan and will be issued in January 1985.

Another area of active interest during 1984 was Vancouver Island. BP Resources Canada Limited holds exploration rights extending from Duncan to Courtenay. The company conducted an extensive geophysical program during the summer and is expected to enhance their knowledge of the area with more geophysics that could lead to drilling in late 1985 or early 1986. Also, exploration to assess the possibility of extracting methane from coal formations was undertaken on Vancouver Island by Novacorp Engineering Services Ltd. This company drilled a number of test wells during the fall of 1984 on exploration permits they hold in the Nanaimo and Port Alberni areas.

Approval was given for 133 programs during 1984 compared to 97 the previous year. These programs represented 238 crew weeks of work with 5 216 kilometres of seismic being shot. In 1983, the number of crew weeks was 106 with 3 516 kilometres of line shot.

HIGHLIGHTS OF PETROLEUM RESOURCES DIVISION ACTIVITIES

This section describes the highlights of both the technical and administrative work carried out by the Division during the year.

LEGISLATION

No formal changes were made to the existing legislation pertaining to the petroleum industry although regulations were drafted to cover the possibility that there is a resumption in offshore operations on the westcoast. To prepare these regulations other legislation from within Canada and other countries was examined as well as a series of discussions were held with representative associations from the industry.

There were no alterations made to the *Petroleum and Natural Gas Act* or the *Geothermal Resources Act* during the year.

MEDIATION AND ARBITRATION BOARD

The composition of the Board for 1984 remained as it was in 1983. That is D.(Ed) Smith, Chairman; Cecil Ruddell, Vice Chairman; John Martin and John Strain, Members.

The mediation and Arbitration Board is established under Part 3 of the *Petroleum and Natural Gas Act*. Its authority and powers are covered by Sections 6 to 32 inclusive. These sections empower the Board to:

(a) Grant Right of Entry to oil and gas companies over alienated lands where such Right of Entry has been refused by the landowner.

(b) Determine conditions for Right of Entry and set compensation to be paid therefor.

(c) Appoint a Member of the Board to act as a Mediator between a petroleum company and a landowner when an impasse develops respecting Right of Entry.

(d) If Mediation proves unsuccessful, convene an Arbitration Hearing, receive exhibits and hear evidence from both Applicant and Respondent prior to determining the compensation for Right of Entry respecting wellsite, campsite, roadway and/or flowline installations.

(e) When requested to conduct Arbitration Hearings, review and set annual rental on leases and previous Board Orders of more than five years duration.

(f) Terminate Right of Entry when an operator ceases to occupy land and a Certificate of Restoration has been issued by the Ministry. To amend or rescind Orders from time to time, as circumstances and conditions dictate.

The Board conducted numerous on-site inspections in 1984. The inspections covered proposed new Right of Entry for the purposes of drilling or laying flowlines and at existing well or pipeline locations where some particular problem came to the Board's attention at the request of a surface owner.

The Board also dealt with numerous rental renegotiations most of which were resolved by Mediation rather than Arbitration. Mediation continues to be a successful method of resolving many conflicts at an informal level.

This year the Board responded to a number of inquiries originating from landowners on Vancouver Island. These inquiries were prompted by the initiation of the seismic program conducted by BP Exploration. The Board will continue to monitor these activities and provide Mediation or Arbitration services as and when required.

ENGINEERING AND OPERATIONS BRANCH

With a significant rise in drilling activity for 1984 the workload of the Branch continued to be heavy. In addition to its normal regulatory duties the Branch carried out a number of important projects discussed in the Section reports that follow. Implementation of the procedures resultant from the Natural Gas Marketing Study was delayed until 1985 while computerization of a full-scale data base for staff use only attained a very preliminary stage. It is planned to integrate such a data base with modification to the production reporting and reservoir data systems.

DEVELOPMENT ENGINEERING

The Development Engineering Section is responsible for the administration of all matters related to the location, drilling, completion, and abandonment of petroleum and geothermal wells. This involves assurance that operators of all wells located, drilled, and produced conform with the regulations and submit the required applications, reports, and information to the Division.

Approval of well authorizations to drill proposed well locations is granted by the Section after review and reference to the Titles and Geological Branches. There were 284 well authorizations issued for petroleum drilling which is 150 per cent more than during 1983.

About one half of these approved locations were in the developing Desan oil play. Throughout the life of a well the status, well name or classification may be changed as circumstances require. During the year statuses were changed on 96 occasions, well names on 355, and well classifications on 83.

Each quarter, field and pool descriptions are published and circulated to the industry based upon the geological pool interpretations made by the Division staff. All drilling and service rigs operating in the Province must have a valid Rig Licence. Eighty-three were renewed while 19 new ones were issued during the year.

In addition to comprehensive well data records, all geological and geophysical reports submitted for work credits as well as the Division correspondence files of the three major Branches are maintained by the Development Section. The microfiche library containing British Columbia basic well data and produced by a commercial service company continued to be used by the Division staff. This is supplemented by a set of all logs taken from wells in the Province plus the important nearby wells.

Limited use of the Section's computer installation was made during 1984. Indices of all wells (alphabetical, numerical, and location) that were transferred from the Word Processor unit to the computer were regularly published for the convenience of Division staff and other interested persons. Transfer of data compiled for Annual Schedule of Wells to the computer continued during the year. It is hoped that when this task is completed the staff will have an immediate access to summarized information on all drilled wells. Implementation of this function was not completed by year end.

Preparation of data to implement the gas marketing study was completed during the year. The new gas royalty will be based on three factors in addition to the gas volume produced, i.e. age in months since first production, depth, and ease of accessibility of the well location.

An additional condition for the approval of NORP oil (New Oil Reference Price) was made in 1984 involving approved infill wells. During the year 32 applications for NORP were approved, 25 for well locations outside the original NORP outlines, 5 for wells where production was shut-in over three consecutive years, and 2 for infill well situations.

Another federal government scheme was supported by the Section by provision of required well information in conjunction with their Petroleum Incentives Program.

As a result of a serious instance of sour gas emission from an Alberta well, the Branch conducted a study of this Province's position in a similar occurrance. A procedure was established whereby special conditions are made to any well location suspect of drilling into a sour gas horizon.

DISTRICT OFFICE

The District Office is located in the village of Charlie Lake in the Peace River area of the Province.

During 1984 over 287 000 kilometres were driven by the District staff to enforce in the field requirements of the Drilling and Production, Geophysical, and Geothermal regulations and their related Acts.

At the end of the year the District inspection staff complement was two senior project technicians, four drilling and production inspectors, and two geophysical technicians. This is a reduction of two over 1983 staffing levels and as this decrease was in the field inspection group, it is reflected in the number of inspections completed. The emphasis of inspections was directed primarily to those types essential to maintain safety for the resource and public and to ensure that operations are environmentally acceptable. During 1984 inspections were made at 323 active drilling sites and 5950 other locations involving producing facilities or abandonments.

To confirm compliance with gas conservation orders, scrutinize production engineering techniques and monitor ambient air quality in the producing fields, 2850 checks were made at oil batteries or satellites and gas dehydration facilities.

The accuracy and reliability of gas measurement at individual field meters and custody transfer points was checked throughout the year. Fast meter checks were made on 794 occasions with an additional 2424 complete meter checks.

To confirm the reliability of subsurface presssure data supplied to the Division by industry, 1750 calibrations were performed on subsurface pressure gauges employing the British Columbia dead-weight tester as the standard. During 1984 this gauge was calibrated to its counterpart from the Alberta regulatory agency with the results confirming acceptability of both dead-weight testers. In addition 212 tests on oil wells and 19 on gas wells were witnessed to augment and confirm data received by the Reservoir Engineering Section.

Geophysical field activity for the year increased to a substantial level but field conditions were less than ideal. A heavy snow cover in early October did not allow frost penetration into the muskeg areas. This condition made field operations very difficult. Inspections of geophysical activities were carried out 149 times during 1984.

The inspection of salt water injection stations was again emphasized with 212 inspections completed. Segregation tests and results on all multiple zone, water injection, and water disposal wells were closely monitored.

Throughout the year the District Office continued close association with the Northeastern British Columbia Oil Spill Co-operative serving as co-chairman and provincial representative on the PROSCARAC (Prairie Regional Oil Spill Containment and Recovery) committee taking an active role at all meetings and training sessions.

In September the annual training exercise of the co-operative was cancelled due to the heavy rainfall. It was scheduled at a location downstream from the Clayhurst ferry on the Peace River. Because of the rain it was decided to replace the field exercise with a classroom presentation. The presentation was given by the Petroleum Industry Training Service. As a result of the change in format it is proposed to alternate the field exercise and a classroom presentation in future years.

Also during 1984 the District staff continued involvement with the Blowout Prevention Certification Committee. Other members of this committee are from the governments of Canada and Alberta, with industry representatives from the Canadian Petroleum Association, Independent Petroleum Association of Canada, and the Canadian Association of Oilwell Drilling Contractors. Course material and examinations were prepared to test the blowout knowledge of persons involved with offshore and land drilling as well as service rig operation.

During the summer and fall months over 150 inspections were completed and Certificates of Restoration issued for abandoned locations. Approximately 130 of these were done by helicopter with the remainder done by ground vehicle. At this time over 1750 abandoned locations have been inspected and certificates issued. There are over 400 remaining that require a final inspection and approval. A second edition of the Construction Guidelines was drafted and circulated to various Ministry and industry contacts for comment.

To improve safety and work efficency the District Office radio system was upgraded. Eleven improved mobile telephones were installed in inspection vehicles and a base station at the District Office. The new system capability includes all twenty-five public frequency channels plus a private frequency that has repeater stations at Helmet, Fort Nelson, Pink Mountain, and Fort St. John.

During 1984 the District staff were involved with numerous ongoing projects such as oil producibility studies, petrophysical reconnaisance, regulation review, establishing restrictions for sour gas wells, and investigation of ambient air quality in and around the producing fields.

RESERVOIR ENGINEERING

An important responsibility of the Reservoir Engineering Section is to estimate on a continuing basis, the oil and gas reserves in British Columbia. Table P3 is a summary of the estimates in SI units as of 1984 12 31 and the remaining reserves are summarized below:

Oil, established	18 804.7	10^3m^3	(118 335.5 MSTB)
Natural Gas, established -			
Raw	290 044	10^6m^3	(10 294.7 BSCF)
Marketable	236 733	10^6m^3	(8 402.5 BSCF)
Natural Gas Liquids -			
Propane	1 483.6	10^3m^3	(9 346.7 MSTB)
Butanes	2 201.6	10^3m^3	(13 863.1 MSTB)
Pentanes Plus	4 308.1	10^3m^3	(27 110.3 MSTB)
Sulphur	11 353.5	10^3m^3	(11 174.2 MLT)

Of the remaining established gas reserves some 105.4 10^9m^3 raw gas or 86.9 10^9m^3 marketable gas was not connected to pipeline at year end.

The Section spent considerable time in compiling a table of Cost Related Factors and Producer Cost Allowances to assist the Mineral Revenue Branch prepare a Production Accounting Manual. Cabinet approval was obtained for all outstanding ministry recommendations arising out of the study on gas marketing. This approval includes permission for any party to buy and sell natural gas with resulting government revenues collected by means of an explicit royalty system.

An updated submission to the National Energy Board entitled "Supply of Crude Oil, Natural Gas and Natural Gas Liquids in British Columbia" was prepared. This submission contains forecasts of producibility as well as estimates of future additions due to drilling, waterflood modifications, and tertiary schemes. The Reservoir Section also supplied the Energy Division of the Ministry with production forecasts for oil and gas for the period ending in 1989 divided into old and new gas and oil categories. Another task undertaken at the request of the Energy Division was to supply data on gas well deliverability and reserves for two separate applications for energy removal certificates.

A detailed study followed the 1983 screening procedure to determine suitable pools for tertiary oil recovery schemes. This study pointed out that tertiary oil projects would be required in the Province to maintain oil production levels into the 1990's. The study also addressed such areas as supply and cost of injection fluids, development costs, and benefits to the Province resulting from development of tertiary schemes.

Three separate meetings were held with Reserves Committee representatives from the National Energy Board, Canadian Petroleum Association and Westcoast Transmission to review Provincial oil and gas reserves. This is an annual event at which these agencies compare Provincial reserves and endeavour to resolve major differences in methodology.

Thirty-nine daily oil allowables and six daily gas allowables were approved for individual wells. Over seven hundred oil and gas pools were reviewed and Branch requirements for bottom hole pressure measurements, deliverability and absolute open flow potential tests were communicated to the appropriate coordinating operators. Eighty per cent of the requirements had been fulfilled at year end. Considerable time was devoted to analysing the results of these pressure surveys and tests. Pool performance and material balance plots were maintained and updated for all major pools where sufficient pressure and production data were available to permit meaningful interpretation. Regular discussions were held with the Geological Branch to resolve differences between material balance/pool performance reserves estimates and those derived from volumetric estimates. Routine assistance was provided to other branches with technical evaluations and assessments of Crown Lands. As in previous years, a map was prepared to show additions and changes to reported maximum detected hydrogen sulphide concentrations in produced gases.

GEOLOGICAL BRANCH

ECONOMIC GEOLOGY AND GEOPHYSICS

Project work in economic geology and geophysics during the year centred on one major regional study and revisions to existing subsurface mapping coverage located in the northeast sector of the Province. The 1983 Gulf Desan Mississippian oil discovery northeast of Fort Nelson initiated a new exploration play in an area previously considered to be essentially gas prone. As a result of this activity a major geological study was commenced to evaluate the Mississippian oil potential over approximately 20 000 square kilometres to the east of Fort Nelson. The compilation and correlation phase of the study which is nearing completion will be used in mapping the structure and areal distribution of prospective oil bearing Mississippian strata.

Other project work included, revisions to the regional mapping program as a result of last year's drilling activity and the integration of non-confidential seismic data into existing subsurface mapping coverage. Completed revisions included structural maps on top of the Triassic and Halfway formations of National Topographic Map Sheets 94-A, B, G and H. In addition to the latter work, the Drillstem Test and Penetration Map Series were fully updated.

The Geophysical Section was responsible for the Ministry assessment of a number of land-use proposals with reference to their petroleum and geothermal resource potential. These proposals by other government agencies were vetted in order to protect the right to explore and develop lands considered to be potential in oil, gas and/or geothermal resources.

Numerous meetings with representatives of industry and other government agencies were held on matters concerning resource potential and exploration procedures in the Province. These included discussions on the undiscovered oil potential of northeastern British Columbia; documented oil seeps of the Queen Charlotte Islands; geophysical reflection and refraction survey work relative to urbanized areas and paved highways, and the prospects of developing conventional natural gas on Vancouver Island.

RESERVOIR GEOLOGY

With 1984 drilling activity having a substantial 160 per cent increase in comparison to 1983, the Reservoir Geology Section nevertheless carried out a comprehensive program of assessment and mapping of all oil and gas accumulations encountered by the drill. Structural, stratigraphic, and reservoir geologic data made available through drilling were used as a basis for new and revised map constructions, reservoir studies, evaluation of reserves and the control of remedial work, recycling, repressuring, and secondary recovery projects.

Noteworthy and other pool map additions and/or changes included the Boundary Lake-Halfway 'A' oil pool which on re-interpretation was split into three oil pools and one gas pool; revision to the limits of the Buick Creek-Bluesky 'A' and 'C' gas pools; minor adjustments to the Fireweed-Dunlevy 'A', 'B' and 'C' gas pools and the Baldonnel 'B' gas pool; deletion of Flatrock West-Halfway 'B' gas pool which was absorbed into a revised Flatrock-Halfway 'E' oil pool consequent to re-interpretation of production and geological data; change of the Fort St John-North Pine 'C' gas pool to an oil pool with an enlargement of areal extent; increase in the size of the Silverberry-North Pine 'A' gas pool to agree with net pay and pressure decline values; addition of two new single well Debolt gas pools to the Sikanni gas field, namely c-32-I/94-G-3 and d-53-I/94-G-3; and extensions to the Sundown-Halfway 'A', the Septimus-Halfway 'A', and the Wilder-Halfway 'A' gas pools. At Monias, the Belloy 'B' gas pool was eliminated and replaced by a more extensive Taylor Flat 'C' gas pool based on revised stratigraphic correlations. Minor extensions were also made to the Monias-Halfway 'A' and 'B' gas pools. With successful development drilling at the edges of the Birch-Baldonnel, Boundary Lake-Boundary Lake, Eagle-Belloy, and Eagle West-Belloy oil pools areal enlargements were made. In the Desan area, contour pay maps were not constructed because of the lack of conclusive data on many wells. However six oil pools, the Pekisko 'A', 'B' and 'C', and the Shunda 'A', 'B' and 'C' have been identified, and net pays have been determined at confirmed oil wells on plats of each pool.

Five new fields were designated, the most significant one being DESAN (N.T.S. 94-P-7). The other four include MEL (N.T.S. 94-P-4) with a Slave Point gas pool; PESH (N.T.S. 94-P-8) with Jean Marie and Slave Point gas pools; PINTAIL (Twp. 85-25 W6) with a one well Coplin sand oil pool; and TOOGA (N.T.S. 94-P-2) with a Mississippian oil pool. Tooga resulted from a follow-up of the Desan discovery. Field boundary changes, mostly extensions, were implemented at Boundary Lake, Buick Creek West, Birch, Cabin, Clarke Lake, Currant, Eagle, Eagle West, Fireweed, Flatrock, Flatrock West, Helmet, Monias, Osprey, Peejay, Rigel, Septimus, Sierra, Silverberry, Siphon, Stoddart South, Stoddart West, Woodrush and Yoyo.

During 1984 ongoing studies were carried out on the Desan Mississippian oil play. Cores from 9 wells were examined and rock samples of different lithologies were made into thin sections and studied by microscope. Results, added to electric log studies, indicate that up to 9 or 10 Mississippian (Debolt, Shunda, and Pekisko) reservoir units are shallow shelf limestones. In all cases primary dolomite and dolomitization are absent. Reservoir quality limestones contain a high proportion of organic components, principally crinoids, bryozoans, solitary and colonial corals, and foraminefera. The highest quality reservoirs are biostromal accumulations and crinoidal banks or mounds. The units with the best porosity appear to be in the upper part of the Pekisko formation, the Desan member of the Shunda, and in the upper part of the Shunda above the Desan member. Block faulting with displacements of approximately 20 metres are evident in the Mississippian of the Desan area. A detailed investigation was also made of formation temperature and Mississippian water resistivities of drilling wells within the general Desan area.

A detailed study was done on the Boundary Lake-Halfway 'A' oil pool as a result of a request for concurrent gas and oil production. Integration of geological and engineering investigations produced a new four-pool interpretation comprising one gas pool with no associated oil or water, one pool with only gas and oil, and two pools with gas, oil, and water columns.

The Birch-Baldonnel 'C' oil pool was studied in detail to explain the apparent very low oil recovery factor of 5 per cent or less. The investigation indicated the reservoir strata to be extremely heterogeneous, a fact confirmed by the wide divergence of points on a core porosity/permeability plot. Additionally, with vertical permeabilities only one tenth of horizontal permeabilities and the fact that gas/oil ratios and water cuts bear no relationship to the structural position of completed intervals, the concept was deduced of a multitude of thin sandwich slices forming the overall reservoir. Core porosity and permeability data when compared to log data indicate that the original net oil pays calculated over logged intervals that were not cored were excessive. Application of a reduction factor to the original net oil pays was therefore justified, and the apparent low recovery factor at least partly explained.

Another project was done to clarify the relationships of numerous North Pine sand reservoirs in the Fort St John and Cecil field areas which are fault controlled. The project was necessary to determine production allowables for a concurrent production request in the centre of this complicated area.

Other studies were completed on the Fireweed-Dunlevy 'B' and 'C' gas pools and the Buick Creek-Bluesky 'A', 'B' and 'C' gas pools to determine if lease continuation requests are valid.

Many lease strata title determinations and related productive zone identifications were processed and routine assistance was provided in advising Branches with geological assessment of Crown Lands posted for disposition of Crown petroleum and natural gas rights, and petroleum and natural gas lease continuations; the reclassification of wells for the purpose of confidentiality and new pool discovery status; and appraisals concerning industry production schemes, such as concurrent production and good engineering practice (GEP's), plus the disposal of water production.

TITLES BRANCH

During 1984 the establishment of the Titles Branch was reduced from 14 to 11 in line with the government restraint policy for downsizing of the public service. This reduction of two clerks and one technical assistant (draughtsman) curtailed the Branch's ability to provide effective service to the public without time delay, which sometimes was quite significant.

The automation of all of the title records and accounts commenced in January 1984. By October, with the assistance of a data entry clerk from outside sources, all of the record information was automated with parallel operations commencing. It is expected that by October 1985 all records will be fully automated and manual backup will terminate. Automation of all accounting functions will commence during the summer of 1985 with completion expected 12 to 14 months later at which time full automation of the Titles Branch will be complete with the exception of the mapping responsibilities.

There were five dispositions of Crown petroleum and natural gas rights held during 1984. These dispositions offered a total of 307 parcels. Of this number, 202 parcels covering 254 108 hectares were awarded. Tender bonuses totalling $61,754,227.62 were received which represented an average of $243.02 per hectare. A comparison with the disposition held in 1982 and 1983 is as follows:

Year	Parcels Offered	Parcels Awarded	Total Ha.	Tender Bonus $	Average Price Per/Ha $
1984	307	202	254 108	$61,754,228	$243.02
1983	165	110	141 148	26,014,217	184.30
1982	169	123	166 441	16,724,133	100.48

The disposition held in 1984 followed the trend that was established in 1983 as a result of the oil discovery made by Gulf Canada Resources Inc. in the Desan area northeast of Fort Nelson. Of the 202 parcels that were awarded during the year, approximately 50 parcels were in this active Mississippian area and its southern extension. The total bonus received for parcels in this area was in excess of 33 million dollars.

At December 31, 1984 there were 9,337,232 hectares of oil, gas, and geothermal rights held under 7,761 various forms of title. This compares to 8,718,113 hectares held under 7,902 titles at the beginning of the year. The number of permits and drilling licences increased while lease tenure decreased by 175. A comparison is as follows:

	PERMITS		DRILLING LICENCES		NATURAL GAS LICENCES		LEASES		GEOTHERMAL PERMITS		TOTALS	
	No.	Ha.	No.	Ha.	No.	Ha.	No.	Ha.	No.	Ha.	No.	Ha.
Jan. 1/84	258	3,507,122	47	158,062	2	7,136	7 594	5,037,507	1	8,286	7 902	8 718 113
Issued	45	1,068,170	27	87,616	1	4,684	344	214,930	-	-	417	1 375 400
Cancelled	31	328,427	6	22,511	2	7,136	519	398,207	-	-	558	756 281
Dec. 31/84	272	4,246,865	68	225,167	1	4,684	7 419	4,854,230	1	8,286	7 761	9 337 232

OFFSHORE ADMINSTRATION BRANCH

Significant progress toward possible resumption of offshore petroleum exploration was made during 1984.

Subject to an agreement between the federal and provincial governments, signed the previous year, a joint public review was established early in the year to consider the potential environmental and directly related socio-economic effects of offshore petroleum exploration activity. The five member panel was appointed in June by the federal and provincial Ministers of Environment, under whose auspices the review was established. The review is without prejudices to ownership and jurisdiction.

The Panel held a series of information meetings in 17 coastal communities in November to acquaint the communities with the review process and to hear issues of concern expressed by individuals in these communities. The Division was represented at all of these meetings to monitor the issues raised and to respond to questions on an informal basis.

The Panel issued a draft request for additional information from government and industry in October as a result of the above meetings. Citing the onerous extent of this additional request, Petro-Canada Inc. withdrew from the review process, but have not withdrawn from their interests in west coast exploration. Chevron Canada Resources Limited continued to participate in the review process. Although neither company holds provincial permits, their participation in the review was accepted by the Province under the terms of the federal-provincial agreement.

The Panel subsequently issued a final request for additional information in December. The Branch coordinated responses from provincial and federal ministries to the Panel and participated in a workshop with provincial and federal representatives during which blowout scenarios were developed as requested by the Panel. At the workshop these hypothetical oil blowouts, in locations specified by the Panel, were monitored for 60 days from the day of the spill. Surface oil movement was based on actual 1984 wind data. In each case, consideration was given to responsibilities of various agencies (operator, coast guard, regulators and environmental agencies), logistics of obtaining required equipment (relief rig, booms, skimmers, transport etc.), supplies (food, lodging, disperants) and manpower. Finally the possible effects on resources were estimated. All of this information will be submitted to the Panel in 1985. Preparations for ministry and provincial involvement in the Public Hearing phase of the review which is scheduled to occur early in 1985 continued.

In addition to participation in the public review process, the Branch initiated development of a draft offshore drilling regulation and has had preliminary discussions related to other offshore management issues, such as diving regulations and permitting with appropriate agencies. Preliminary steps were taken by the Province during the year to initiate a negotiated settlement with the federal government on offshore jurisdiction and management issues.

Communication with the offshore petroleum and related industries continued during the year. An "Offshore Update", outlining the current status of the British Columbia offshore, was provided to a number of industry associations as back-ground information to the review process.

STATISTICAL TABLES

Table P1 - Hectares of Crown Petroleum and Natural Gas Rights Held, 1970-1984

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Petroleum and natural gas permits	5 379 502	5 363 440	5 232 700	5 057 241	4 727 388	8 531 140	6 895 975	6 173 951	5 507 122	4 279 805
Petroleum and natural gas leases	2 255 952	2 387 335	2 911 776	3 151 372	3 755 470	4 248 550	4 833 344	5 048 562	4 737 296	4 567 759
Natural gas licences	3 160	2 904	14 721	- --- ---	7 559	25 346	1 619	- --- ---	7 136	4 684
Natural gas leases	197 388	203 789	209 117	228 480	255 903	299 307	308 853	313 717	298 673	284 923
Petroleum leases	1 287	1 287	1 287	1 548	1 548	1 548	1 548	1 548	1 548	1 548
Drilling reservations & Drilling licences	128 570	212 529	338 681	426 117	422 888	430 669	247 816	126 791	158 062	225 167
Totals	7 965 859	8 171 284	8 708 282	8 904 758	9 170 756	13 296 560	12 249 155	11 664 169	8 709 827	9 361 886

Table P2 - Petroleum and Natural Gas Revenue, 1947-1984

	1947/75	1976	1977	1978	1979	1980	1981	1982	1983	1984	1947/1984
Rental and Fees	$	$	$	$	$	$	$	$	$	$	$
Permits	94 991 227	2 114 161	2 128 190	1 882 589	1 696 425	3 768 152	1 899 471	2 096 108	1 912 936	2 636 233	75 123 480
Drilling reservations & Drilling licences	1 549 687	124 196	172 078	266 654	223 760	251 047	121 255	177 073	309 483	527 487	3 718 899
Leases	119 240 906	11 925 123	13 680 926	16 782 862	19 428 644	25 665 473	25 296 643	29 640 263	38 027 803	39 093 203	335 781 846
Natural Gas Licences	81 269	3 838	- --- ---	47 902	43 262	29 826	20 668	31 630	8 515	7 665	274 175
Miscellaneous Fees	447 512	32 248	64 583	69 392	82 490	95 029	86 027	181 210	113 161	154 924	1 305 581
Total Rentals	176 306 801	14 199 566	16 045 777	19 048 999	21 474 579	29 809 527	27 400 042	31 126 284	40 371 838	42 421 515	416 206 978
Crown Reserve Disposition Bonuses											
Permits	127 631 362	27 548 820	60 017 393	49 518 449	45 949 254	21 126 236	22 551 164	4 837 560	4 457 560	16 794 065	380 411 663
Drilling licences	42 430 239	6 152 419	30 633 861	64 497 213	60 987 012	68 358 992	6 338 253	4 539 818	13 756 051	24 545 730	322 209 588
Leases	91 936 733	9 525 202	34 816 472	63 473 986	84 105 329	91 781 576	31 906 986	7 346 955	7 800 606	20 414 433	443 108 288
Total Crown Reserve Dispositions	261 998 334	43 226 441	125 467 726	177 459 648	191 041 605	181 266 804	60 776 403	16 724 133	26 014 217	61 754 228	1 145 729 539
Crown Royalties											
Gas	46 629 026	173 315	180 951	72 729	67 200	110 018	15 257	11 666	9 566	608 049	47 872 957
Oil	180 453 462	43 925 220	41 015 470	42 191 350	44 819 110	47 634 589	55 261 145	74 544 128	86 966 559	95 594 168	716 406 001
Processed products and penalties	1 845 661	711 810	888 799	1 075 577	1 048 746	1 624 942	1 762 012	1 624 973	2 166 301	3 070 602	15 819 223
Gas revenue from B.C. Petroleum Corp.	198 150 000	44 810 345	42 085 220	43 339 456	45 935 096	49 369 549	57 038 394	76 180 767	89 142 226	103 268 619	780 097 781
Crown Royalty Totals	427 078 149	149 990 000	174 250 000	159 400 000	257 875 000	242 875 000	158 000 000	155 000 000	102 580 000	113 700 000	1 711 680 900
Total Petroleum and Natural Gas Revenue	865 383 284	252 086 352	357 848 725	399 248 103	516 326 240	501 320 880	505 214 839	279 051 184	258 108 331	321 144 562	4 053 712 298

Table P3 - Established Hydrocarbon and By-product Reserves, December 31, 1984

	CRUDE OIL 10^3m^3	RAW GAS 10^6m^3	MARKETABLE GAS 10^6m^3 (1)	PROPANE 10^3m^3	BUTANES 10^3m^3	PENTANES 10^3m^3	SULPHUR 10^3t
Initial Reserves, Current Estimate	79 551.4	496 703	406 812	3 111.7	4 537.7	8 950.6	14 404.7
Cumulative Production to December 31, 1983	58 633.6	198 395	163 423	1 579.9	2 264.5	4 509.7	2 822.1
Remaining Reserves Estimate at December 31, 1983	23 515.2	292 338	238 622	1 498.3	2 218.8	4 324.1	11 250.4
Drilling in 1984	+ 781.1	+ 1 798	+ 1 609	+ 15.5	+ 20.2	+ 34.3	+ 16.2
Revisions in 1984	-3 378.5	+ 4 172	+ 3 158	+ 18.0	+ 34.2	+ 82.5	+ 316.0
Production in 1984	-2 113.1	- 8 264	- 6 656	- 48.2 (2)	- 71.6 (2)	- 132.8 (2)	- 229.1 (2)
Remaining Reserves at December 31, 1984	18 804.7	290 044	236 733	1 483.6	2 201.6	4 308.1	11 353.5

Notes: Gas volumes measured at 101.325 kPa and 15°C

(1) Figures in this column are estimates of marketable gas i.e. the gas available to the transmission line after removal of acid gases and a percentage of liquid hydrocarbons.

(2) These figures are estimates based on average gas analyses and estimated Plant recoveries. Actual recoveries of propane, butanes, pentanes, and sulphur were 59.7, 82.0, 145.5 10^3m^3, 271.2 10^3t respectively during 1984.

Table P4 - Drilling and Production Schemes Approved in 1984

Field/Area	Pool	Area or Well	Date of Approval
Approval of Concurrent Production			
Boundary Lake	Halfway 'E' & 'F'	Twp. 85, Rge. 14, Section 24	1984 03 21
Elm	Halfway 'A'	NTS 94-H-7, Blk. C, Units 52, 53, 62 and 63	1984 02 27
Flatrock	Halfway 'F'	Twp. 84, Rge. 17, Section 13	1984 05 18
Flatrock	Halfway 'E'	Twp. 84, Rge. 17, Section 23	1984 05 18
Flatrock	Halfway 'E'	Twp. 84, Rge. 17, Section 26	1984 07 01
Fort St. John	North Pine 'C'	Twp. 83, Rge. 17, Section 31	1984 06 11
Fort St. John	North Pine 'A'	Twp. 83, Rge. 18, Section 25	1984 11 23
Fort St. John	North Pine 'C'	Twp. 83, Rge. 18, Section 36	1984 09 19
Approval of Concurrent Production and Good Engineering Practice			
Wildmint	Upper Halfway 'A'	NTS 94-A-15, Blk. I, Units 92, 93, 95 NTS 94-H-2, Blk. A, Units 2, 3, 4, 5, 6	1984 08 03
Approval of Good Engineering Practice			
Cecil Lake	North Pine 'A'	Twp. 85, Rge. 17, Sections 6 and 7	1984 08 03
Osprey	Halfway 'A'	NTS 94-A-15, Blk. J, Units 12, 13, 22 and 23	1984 01 13
Osprey	Halfway 'A'	NTS 94-A-15, Blk. J, Units 34, 35, 44 and 45	1984 10 24
Pintail	Coplin 'A'	Twp. 85, Rge. 25, Section 22	1984 08 13
Roger	Pine Point 'A'	NTS 94-J-15, Blk. A, Units 18, 19, 20, 28, 29, 30, 38, 39, 40, 48, 49, 50	1984 03 21
Approval of Good Engineering Practice Enlargement			
Kotcho Lake	Slave Point 'A'	NTS 94-I-14, Blk. K, Units 72, 73, 82, 83	1984 10 01
Approval of Salt-water Disposal			
Stoddart West	Halfway	CEGO et al Stoddart 14-24-85-20	1984 05 14
Approval of Underground Gas Storage			
Aitken Creek	Gething 'A'	Same as Aitken Creek Gas Unit No. 1	1984 07 24

Table P5 - Daily Oil Allowables Issued, 1984

Field	Pool	Well Name	DOA m^3	Effective Date
Birch	Baldonnel 'C'	PCP et al Birch d-87-H/94-A-13	43.3	1984 10 29
Birch	Baldonnel 'C'	PCP et al Birch d-98-H/94-A-13	37.9	1984 10 29
Boundary Lake	Boundary Lake 'A'	Esso et al Boundary 14-1-84-14	13.2	1984 01 11
Boundary Lake	Boundary Lake 'A'	Scurry PEX Boundary 14-5-84-14	7.0	1984 01 17
Boundary Lake	Boundary Lake 'A'	Eagle et al Boundary 8-8-84-14	6.8	1984 08 03
Boundary Lake	Boundary Lake 'A'	Eagle et al Boundary 6-9-84-14	8.4	1984 01 24
Boundary Lake	Boundary Lake 'A'	Eagle et al Boundary 6-12-84-14	10.8	1984 08 09
Boundary Lake	Boundary Lake 'A'	Aberford Boundary 16-12-84-14	8.2	1984 08 20
Boundary Lake North	Halfway 'D'	Murphy N Boundary 14-31-87-14	4.5	1984 05 10
Desan	Shunda 'C'	Gulf ABC Desan d-51-D/94-P-7	24.6	1984 1. 13
Desan	Shunda 'A'	Gulf ABC Desan b-64-D/94-P-7	33.7	1984 11 13
Desan	Pekisko 'A'	Gulf ABC Desan d-67-D/94-P-7	13.6	1984 11 13
Desan	Pekisko 'A'	Gulf ABC Desan d-75-D/94-P-7	14.2	1984 11 13
Desan	Pekisko 'A'	Gulf ABC Desan d-A76-D/94-P-7	21.1	1984 11 13
Desan	Pekisko 'A'	Gulf ABC Desan d-86-D/94-P-7	11.6	1984 11 13
Desan	Shunda 'B'	Gulf ABC Desan d-A95-D/94-P-7	6.0	1984 11 13
Eagle	Belloy 'B'	Scurry Koch Cecil 6-30-84-17	20.5	1984 04 12
Eagle	Belloy 'B'	Scurry CEGO Eagle 5-25-84-18	11.4	1984 01 03
Eagle	Belloy 'B'	Scurry Cecil 8-25-84-18	8.8	1984 01 16
Eagle	Belloy 'B'	Scurry CEGO Eagle 15-5-84-18	28.9	1983 12 15
Eagle	Belloy 'B'	Scurry CEGO Eagle 15-26-84-18	21.8	1984 07 18
Eagle	Belloy 'B'	Scurry CEGO Eagle 14-35-84-18	13.2	1984 08 16
Eagle	Belloy 'B'	Scurry CEGO Eagle 6-36-84-18	7.8	1984 01 25
Eagle West	Belloy 'A'	Scurry CEGO Eagle 14-10-84-18	8.4	1984 01 23
Eagle West	Belloy 'A'	Scurry CEGO Eagle 6-15-84-18	11.9	1984 09 13
Eagle West	Belloy 'A'	Scurry PPC Eagle 3-16-84-18	8.9	1984 03 12
Eagle West	Belloy 'A'	Scurry PPC Eagle 8-16-84-18	10.2	1983 11 10
Eagle West	Belloy 'A'	Scurry PPC Eagle 16-16-84-18	8.8	1984 02 14
Eagle West	Belloy 'A'	Scurry CPGO Eagle 6-21-84-18	7.6	1983 12 30
Flatrock	Boundary Lake 'C'	PPTRMK Flatrock A14-7-84-16	10.2	1984 01 12
Oak	Halfway 'B'	Eagle et al Oak 14-6-86-17	11.3	1984 03 15
Peejay	Halfway 'A'	Ultramar et al Peejay c-96-D/94-A-16	13.2	1984 01 18
Rigel	Dunlevy 'A'	Monsanto PEX Rigel 14-14-87-17	4.5	1984 07 27
Stoddart West	Belloy 'C'	Scurry et al Stoddart 14-33-85-20	7.3	1983 12 29
Stoddart West	Belloy 'C'	POCO Stoddart 16-35-85-20	7.3	1983 12 29
Weasel	Halfway 'I'	Dome et al Osprey d-11-C/94-H-2	21.6	1984 02 17
Other Areas	Dunlevy	Ladd Rigel East 8-22-87-17	13.9	1984 11 22
Other Areas	Boundary Lake 'A'	Scurry PCI Boundary 16-6-84-14	4.5	1984 11 02
Other Areas	Belloy	Scurry et al Mallard 8-7-85-19	10.6	1983 11 18

Table P6 - Daily Gas Allowables Issued, 1984

Field	Pool	Well Name	DGA 10^3m^3	Effective Date
Boundary Lake	Dunlevy 'B'	PEX et al Boudnary 8-15-85-17	60.0	1984 10 31
Fireweed	Bluesky 'C'	CZAR et al Fireweed a-29-D/94-A-14	60.0	1984 04 28
Flatrock West	Halfway 'B'	Ladd et al Flatrock 10-23-84-17	60.0	1984 01 31
Mel	Slave Point 'A'	CDCOG East Mel d-8-I/94-P-4	534.6	1984 02 15
Sierra	Pine Point 'B'	Mobil Sierra d-88-K/94-I-11	1072.1	1984 11 14
Other Areas	Maidonnel	PCI et al Jedney a-81-C/94-G-8	93.7	1984 11 14

Table P7 - Wells Drilled and Drilling, 1984

Well Authorization Number	Well Name	Date Spudded	Date Rig Released	1984 Depth	Status at 1984 12 31
5950	Aberford Boundary 16-12-84-13	84 06 06	84 06 21	1 394.0	Boundary Lake oil
5953	Aberford Boundary 10-8-86-13	84 03 15	84 03 26	1 314.0	Abandoned-dry
5952	Aberford PCP Desan a-87-K	84 02 07	84 02 26	1 390.0	Standing
6018	Aberford PCP Desan d-74-K	84 03 03	84 03 11	710.0	Mississippian oil
5939	Amoco E Bivouac c-16-A	84 02 09	84 03 14	2 318.0	Standing
6093	Atlantis Keyston Flatrock 6-14-84-17	84 06 18	84 07 17	1 950.0	Abandoned-dry
6086	Bow Valley et al Naden b-27-J	84 06 24	84 08 07	473.9	Junked & Abandoned
6110	Bow Valley et al Naden b-A27-J	84 08 14	84 11 02	1 147.9	Abandoned-dry
5957	BP W Beatton b-13-L	84 02 21	84 02 29	1 070.0	Abandoned-dry
5864	Cairn et al Boundary 8-32-85-13	84 01 17	84 02 03	1 400.0	Halfway gas
6128	Cairn et al Oval 6-26-86-14	84 12 30			Drilling
6114	Canhunter Union Kelly a-43-H	84 10 05	84 11 05	2 637.0	Gething gas
6056	Canterra et al Etset d-70-F	84 03 26	84 04 02	466.0	Standing
6068	Canterra et al Thetlaandoa d-84-K	84 04 04	84 04 14	585.0	Abandoned-dry
6009	Canterra Total Tooga d-41-L	84 03 05	84 03 17	723.0	Standing
6041	Canterra Westar Petitot d-57-L	84 03 20	84 03 30	541.5	Standing
5919	Cdn Res ACRIC Border d-39-C	84 01 28	84 02 02	740.8	Gething gas

Table P7 - Wells Drilled and Drilling, 1984 (Continued)

Well Authorization Number	Well Name	Date Spudded	Date Rig Released	1984 Depth	Status at 1984 12 31
5918	Cdn Res BCRIC Border d-53-K	84 01 18	84 01 26	800.0	Gathing gas
5795	Cdn Res Gulf Border d-77-G	84 01 05	84 01 15	848.0	Gathing gas
6012	Cdn Res et al Pintail 8-13-85-25	84 12 13			Drilling
5876	Cdn-Sup et al Sikanni c-70-E	83 12 21	84 02 21	2 000.0	Debolt gas
5989	CEGO et al Attachie 4-24-84-23	84 03 08	84 04 29	2 215.0	Abandoned-dry
5894	Charter et al Bulrush d-96-F	84 01 09	84 01 17	1 150.0	Abandoned-dry
5893	Charter et al Milligan d-77-G	83 12 24	84 01 02	1 165.0	Bluesky--Halfway gas
6022	Co-enerco et al Desan d-15-C	84 03 06	84 03 15	653.0	Abandoned-dry
6044	Co-enerco et al Desan d-65-C	84 03 15	84 03 24	647.5	Abandoned-dry
5514	CZAR et al N Helmet b-84-J	84 03 16	84 04 01	1 230.0	Jean Marie gas
6074	Dekalb et al N Thetlaandoa d-15-C	84 03 27	84 04 02	584.0	Standing
6163	DiaShaw W Stoddart 10-35-86-21	84 12 30			Drilling
6082	DiaShaw W Stoddart 10-36-86-21	84 08 16	84 09 09	1 980.0	Belloy gas
6117	Dome et al Alces 8-27-83-14	84 10 16	84 11 16	2 276.0	Abandoned-dry
6108	Dome et al Beavertail d-32-B	84 09 19	84 09 30	1 325.0	Abandoned-dry
6123	Dome PCP et al Doe 1-12-80-14	84 10 29	84 11 15	1 783.8	Abandoned-dry
6130	Dome et al Flatrock 6-31-84-16	84 11 14	84 11 29	1 550.0	Halfway gas
6116	Dome et al Flatrock 16-25-84-17	84 09 26	84 10 05	1 393.0	Baldonnel oil
5874	Dome PCI Oetco a-19-H	84 01 13	84 06 29	4 100.0	Confidential gas
5991	Dome et al Osprey d-21-C	84 03 15	84 03 25	1 230.0	Abandoned-dry
6102	Dome et al Pingel 16-10-82-18	84 07 20	84 08 11	1 667.0	Abandoned-dry
6042	Dome et al N Thetlaandoa d-64-C	84 03 17	84 03 24	672.0	Standing
5878	Dome et al Weasel d-11-C	83 12 29	84 01 10	1 227.0	Halfway oil
5873	Eagle et al Boundary 14-7-84-13	83 12 28	84 01 08	1 395.0	Boundary Lake oil
6101	Eagle et al Boundary 8-8-84-14	84 07 05	84 07 13	1 351.0	Boundary Lake oil
6076	Eagle et al Oak 8-6-86-17	84 06 15	84 07 03	1 510.0	Abandoned-dry
5940	Eagle et al Oak 14-6-86-17	84 01 27	84 02 14	1 481.7	Halfway oil
6127	Esso et al N Boundary 16-8-84-14	84 12 09	84 12 24	1 296.9	Boundary Lake oil
6092	Esso et al N Boundary 6-12-84-14	84 07 04	84 07 18	1 395.5	Boundary Lake oil
6126	Esso et al N Boundary 8-12-84-14	84 11 26	84 12 07	1 392.0	Boundary Lake oil
5942	GEOG et al Peejay d-97-C	84 01 26	84 02 03	1 235.5	Abandoned-dry
6048	Gulf ABC Desan d-1-A	84 03 15	84 03 20	744.0	Pekisko oil
6016	Gulf ABC Desan d-9-C	84 02 28	84 03 07	706.0	Standing
5887	Gulf ABC Desan d-59-C	84 01 22	84 01 30	685.0	Abandoned-dry
6007	Gulf ABC Desan d-78-C	84 02 28	84 03 04	670.0	Standing
5999	Gulf ABC Desan d-99-C	84 02 22	84 02 27	695.0	Standing
5943	Gulf ABC Desan d-1-D	84 02 20	84 02 27	705.0	Pekisko oil
6148	Gulf ABC Desan b-5-D	84 12 31			Drilling
6054	Gulf ABC Desan d-5-D	84 03 16	84 03 21	733.0	Pekisko oil
6053	Gulf ABC Desan d-6-D	84 03 18	84 03 21	730.0	Pekisko oil
6049	Gulf ABC Desan d-7-D	84 03 11	84 03 17	730.0	Pekisko oil
5976	Gulf ABC Desan d-13-D	84 03 08	84 03 17	710.0	Abandoned-dry
5906	Gulf ABC Desan d-14-D	84 01 21	84 01 30	690.0	Mississippian oil
6149	Gulf ABC Desan b-16-D	84 12 30			Drilling
6058	Gulf ABC Desan d-17-D	84 03 20	84 03 24	725.0	Pekisko oil
6059	Gulf ABC Desan d-24-D	84 03 19	84 03 23	707.0	Shunda oil
6032	Gulf ABC Desan d-26-D	84 03 04	84 03 08	695.0	Pekisko oil
5881	Gulf ABC Desan d-32-D	84 01 06	84 01 16	703.0	Shunda oil

6057	Gulf ABC Desan d-39-D	84 03 19	84 03 24	710.0	Standing
5961	Gulf ABC Desan d-41-D	84 02 29	84 03 07	694.0	Shunda oil
5931	Gulf ABC Desan d-42-D	84 02 07	84 02 13	705.0	Shunda oil
5905	Gulf ABC Desan d-46-D	84 01 21	84 01 26	705.0	Pekisko oil
5962	Gulf ABC Desan d-51-D	84 02 14	84 02 19	695.0	Shunda oil
5880	Gulf ABC Desan d-52-D	84 01 17	84 01 22	700.0	Shunda oil
5886	Gulf ABC Desan d-54-D	84 01 11	84 01 21	710.0	Standing
5929	Gulf ABC Desan d-55-D	84 02 09	84 02 16	705.0	Standing
5914	Gulf ABC Desan d-63-D	84 01 21	84 01 26	705.0	Standing
5915	Gulf ABC Desan d-65-D	84 02 17	84 02 29	702.5	Shunda--Pekisko oil
5986	Gulf ABC Desan d-67-D	84 03 07	84 03 11	707.0	Pekisko oil
5888	Gulf ABC Desan d-73-D	84 01 22	84 01 29	695.0	Abandoned-dry
5912	Gulf ABC Desan d-74-D	84 01 30	84 02 05	703.0	Standing
5917	Gulf ABC Desan d-75-D	84 02 06	84 02 12	705.0	Pekisko oil
5892	Gulf ABC Desan d-A76-D	84 01 08	84 01 20	706.0	Pekisko oil
5934	Gulf ABC Desan d-81-D	84 02 16	84 02 21	685.0	Standing
5963	Gulf ABC Desan d-85-D	84 02 13	84 02 17	700.0	Standing
5964	Gulf ABC Desan d-86-D	84 02 18	84 02 22	700.0	Mississippian oil
5971	Gulf ABC Desan d-87-D	84 03 07	84 03 12	707.0	Standing
5982	Gulf ABC Desan d-94-D	84 03 04	84 03 09	710.0	Standing
5884	Gulf ABC Desan d-A95-D	83 12 28	84 01 12	683.0	Shunda oil
5974	Gulf ABC Desan d-97-D	84 03 04	84 03 10	700.0	Standing
5993	Gulf ABC Desan d-1-E	84 03 02	84 03 07	705.0	Standing
5968	Gulf ABC Desan d-3-E	84 02 25	84 03 02	702.0	Mississippian oil
5965	Gulf ABC Desan d-7-E	84 02 18	84 02 25	702.0	Mississippian oil
5836	Gulf ABC Desan d-11-E	84 01 14	84 01 20	672.0	Detrital Sand Gas--Mississippian oil
6043	Gulf ABC Desan d-15-E	84 03 12	84 03 16	696.0	Standing
6027	Gulf ABC Desan d-22-E	84 03 13	84 03 19	690.0	Standing
6001	Gulf ABC Desan d-27-E	84 02 23	84 02 27	691.0	Standing
5998	Gulf ABC Desan d-31-E	84 02 28	84 03 03	688.0	Standing
5909	Gulf ABC Desan d-34-E	84 02 06	84 02 11	660.0	Mississippian oil
5889	Gulf ABC Desan d-39-E	84 01 31	84 02 05	670.0	Mississippian oil
5994	Gulf ABC Desan d-47-E	84 02 22	84 02 27	665.0	Standing
5928	Gulf ABC Desan d-7-F	84 02 13	84 02 18	670.0	Standing
6000	Gulf ABC Desan d-19-F	84 03 01	84 03 06	700.0	Standing
5925	Gulf ABC Desan d-55-F	84 02 11	84 02 15	660.0	Standing
5945	Gulf ABC Desan d-A89-K	84 01 30	84 02 08	695.0	Mississippian oil
6047	Gulf ABC Desan d-73-L	84 03 10	84 03 15	734.0	Mississippian oil
6046	Gulf ABC Desan d-75-L	84 03 09	84 03 13	725.0	Pekisko oil
6006	Gulf ABC Desan d-81-L	84 02 29	84 03 03	720.0	Pekisko oil
6002	Gulf ABC Desan d-93-L	84 02 24	84 02 28	715.0	Standing
5944	Gulf ABC Desan d-95-L	84 02 19	84 02 23	705.0	Pekisko oil
6045	Gulf ABC Desan d-99-L	84 03 14	84 03 18	744.0	Pekisko oil
5904	Gulf ABC Helmet d-33-F	83 12 31	84 01 11	661.0	Mississippian oil
5897	Gulf ABC Helmet d-59-F	84 01 14	84 01 20	651.0	Standing
5885	Gulf ABC Helmet d-19-K	84 01 07	84 01 12	600.0	Standing
5882	Gulf ABC Helmet d-13-L	83 12 28	84 01 06	607.0	Mississippian oil
5891	Gulf ABC Kli d-48-K	84 02 16	84 02 21	506.0	Standing
5921	Gulf ABC Muskwa d-33-I	84 01 17	84 03 07	2 438.0	Abandoned-dry
6017	Gulf ABC Thetlaandoa d-78-I	84 03 08	84 03 13	547.0	Standing
5937	Gulf ABC Thetlaandoa d-32-J	84 01 27	84 02 04	650.0	Mississippian oil
5923	Gulf ABC Tooga d-65-C	84 02 03	84 02 12	805.0	Mississippian oil
5910	Gulf ABC Tooga d-41-E	84 01 27	84 02 02	756.0	Abandoned-dry
5946	Gulf Petitot d-47-C	84 02 10	84 02 15	530.0	Abandoned

Table P7 - Wells Drilled and Drilling, 1984 (Continued)

Well Authorization Number	Well Name	Date Spudded	Date Rig Released	1984 Depth	Status at 1984 12 31
5911	Gulf Petitot d-83-L	84 02 05	84 02 10	582.0	Abandoned
5922	Gulf Shekilie d-29-A	84 02 11	84 02 17	482.0	Abandoned-dry
5949	Gulf Taylor 6-6-83-17	84 02 06	84 03 05	1 905.0	Abandoned-dry
6061	Husky et al Etset d-58-F	84 03 27	84 04 01	520.0	Abandoned
6060	Husky et al N Thetlaandoa d-99-C	84 03 29	84 04 03	567.0	Abandoned
6136	INC Tangram Birch d-31-J	84 12 29			Drilling
6137	INC Tangram et al N Birch d-77-J	84 12 05	84 12 27	1 340.0	Abandoned
1372	Jennex Rigel 6-31-87-16 (re-entry)	84 02 23	84 03 10	1 150.0	Abandoned-dry
6096	Jorex Rae et al Tupper a-82-I	84 07 15	84 09 16	3 102.0	Halfway gas
6134	Jose et al Bison 7-21-85-17	84 12 13	84 12 25	1 467.0	Abandoned-dry
6107	Kilo Buick b-66-I	84 11 22	84 11 29	1 071.0	Dunlevy gas
6104	Kilo Buick d-69-I	84 11 05	84 11 21	1 485.0	Abandoned-dry
6091	Ladd Boundary 8-5-88-16	84 06 16	84 06 27	1 097.0	Dunlevy oil
6115	Ladd Rigel 8-22-87-17	84 09 30	84 10 13	1 387.0	Dunlevy oil
6083	Ladd Rigel 6-13-88-19	84 07 02	84 07 12	1 175.0	Abandoned-dry
6028	Mobil et al Ekokwullie d-23-K	84 03 05	84 03 15	695.0	Pekisko gas
6003	Mobil et al Ekokwullie d-41-K	84 02 25	84 03 04	704.0	Abandoned-dry
5883	Mobil Sierra d-88-K	83 12 17	84 02 05	2 230.0	Pine Point gas
6040	Monsanto Beatton b-68-J	84 03 28	84 04 07	1 154.0	Abandoned-dry
5958	Murphy N Boundary 14-31-87-14	84 02 08	84 02 17	1 360.0	Halfway oil
6050	PCI Etset d-31-F	84 03 15	84 03 21	500.0	Standing
5954	PCI et al Jedney a-81-C	84 03 19	84 04 11	1 480.0	Baldonnel gas
5920	PCI et al Kahntah d-2-L	84 01 30	84 03 11	2 532.0	Abandoned-dry
6138	PCI Osprey d-75-J	84 12 10	84 12 22	1 215.0	Halfway oil
6174	PCI Scurry Osprey d-43-J	84 12 29			Drilling
6120	PCI Wargen d-56-C	84 11 25	84 12 07	1 214.0	Gething oil
6100	PCP et al Birch d-77-H	84 10 28	84 11 10	1 279.0	Baldonnel oil
5907	PCP et al Birch d-87-H	84 02 16	84 03 04	1 345.0	Baldonnel oil
6080	PCP et al Birch d-88-H	84 10 14	84 10 26	1 305.0	Baldonnel oil
5908	PCP et al Birch d-98-H	84 02 03	84 02 14	1 295.0	Baldonnel oil
6067	PCP Farmington 15-26-78-14	84 06 22	84 07 11	1 852.0	Abandoned-dry
6010	PCP Thetlaandoa d-40-H	84 03 08	84 03 15	700.0	Standing
5947	Petrak Flatrock 6-7-84-16	84 12 27			Drilling
6122	Petrak et al Silver d-7-A	84 11 15	84 11 23	1 190.0	Abandoned-dry
5948	Petrorep et al Siphon 8-24-87-16	84 01 27	84 02 06	1 222.0	Lower Dunlevy gas
6052	Petrorep et al N Siphon 8-23-87-16	84 03 24	84 03 31	1 116.0	Gething gas
6121	POCO Stoddart 16-35-85-20	84 10 03	84 10 26	1 966.0	Belloy oil
5966	Polaris et al Peah b-97-A	84 02 20	84 03 20	2 034.0	Jean Marie gas
6023	Quintana et al Helmet d-80-B	84 03 20	84 03 25	675.0	Standing
5875	Remington Esso Lily c-33-L	83 12 05	84 03 26	2 440.0	Halfway gas
6118	Remington Sikanni b-43-A	84 11 02			Drilling
6119	Remington W Sikanni b-19-A	84 10 31			Drilling
6105	Scurry PCI Boundary 16-6-84-14	84 08 31	84 09 14	2 066.0	Boundary Lake oil
5900	Scurry PEX Boundary 14-5-84-14	84 01 03	84 01 16	1 314.0	Boundary Lake oil
5903	Scurry Cecil 8-25-84-18	83 12 20	84 01 14	1 945.0	Belloy oil
6109	Scurry CEGD Cecil 14-24-84-18	84 08 13	84 09 06	1 946.0	Abandoned-dry
6084	Scurry et al Cecil 14-19-84-17	84 06 14	84 07 03	1 919.5	Abandoned-dry
6034	Scurry et al Cecil 8-8-85-17	84 03 29	84 04 10	1 410.0	Abandoned-dry
5951	Scurry Koch Cecil 6-30-84-17	84 03 09	84 03 28	1 936.0	Belloy gas
5901	Scurry CEGD Eagle 14-10-84-18	83 12 28	84 01 20	1 878.0	Belloy oil

6129	Scurry CEGO Eagle 16-10-84-18	84 11 27	84 12 26	1 914.0	Abandoned-dry
6103	Scurry CEGO Eagle 6-15-84-18	84 07 31	84 09 11	2 066.0	Belloy oil
5941	Scurry CEGO Eagle 15-26-84-18	84 01 24	84 03 04	1 960.0	Belloy oil
6094	Scurry CEGO Eagle 14-35-84-18	84 07 17	84 08 10	1 880.0	Belloy oil
5967	Scurry PPC Eagle 3-16-84-18	84 02 15	84 03 08	1 817.9	Belloy oil--Lower Belloy gas
5902	Scurry PPC Eagle 16-16-84-18	84 01 18	84 02 12	1 778.0	Belloy oil
6055	Scurry Eagle West Unit 4-31-84-18	84 06 12	84 07 11	1 510.0	Junked & Abandoned
6005	Scurry Eagle West Unit 12-1-85-19	84 03 08	84 03 28	1 895.0	Belloy oil
6088	Scurry CEGO Flatrock 16-11-84-17	84 07 04	84 07 30	1 980.0	Belloy gas
5960	Scurry et al W Stoddart 8-23-85-20	84 02 06	84 03 04	1 945.0	Belloy oil
6124	Scurry et al W Stoddart 16-8-86-20	84 11 03	84 11 24	1 970.0	Abandoned-dry
5851	Shell N Cypress d-77-L	83 10 09	84 03 17	2 855.0	Debolt gas
5839	Shell Flathead d-12-A	83 08 25	84 03 25	3 890.0	CO2--Pallister gas
5872	Shell Flathead b-35-L	84 01 05	84 08 15	4 676.0	Confidential gas
6095	Shell Forsyth d-25-A	84 09 05			Drilling
5870	Shell Sage c-55-E	84 01 03	84 07 03	5 008.0	Confidential gas
6139	Shell Velma a-5-D	84 12 10			Drilling
6111	Signalta et al Birch d-9-I	84 10 08	84 10 15	1 290.0	Standing
6112	Signalta et al Birch d-21-J	84 10 18	84 11 06	1 253.0	Junked & Abandoned
6131	Signalta et al Birch d-A21-J	84 11 08	84 11 17	1 320.0	Baldonnel oil
5996	Sun Cdn-Sup Thetlaandoa d-33-A	84 02 24	84 03 08	605.0	Abandoned-dry
5995	Sun Cdn-Sup Thetlaandoa d-51-B	84 03 17	84 03 24	605.0	Abandoned-dry
6013	Sun Cdn-Sup Thetlaandoa d-A33-C	84 03 09	84 03 16	605.0	Standing
5926	Suncor et al Adsett a-1-J	84 02 09	84 03 20	2 690.0	Slave Point gas
5988	Suncor Beatton d-84-F	84 03 05	84 03 16	1 180.0	Bluesky--Halfway gas
5987	Suncor Beatton d-31-K	84 02 20	84 03 03	1 155.0	Halfway gas
6097	Suncor Bougie b-62-F	84 11 20	84 12 23	1 375.0	Debolt gas
6098	Suncor LaGarde 6-20-87-15	84 08 02	84 08 17	1 343.0	Abandoned
6062	Texaco N Hay d-57-H	84 03 26	84 04 01	452.5	Bluesky oil
6177	Texaco N Hay d-73-H	84 12 30			Drilling
6140	Texaco et al Oak 15-7-87-17	84 12 02	84 12 20	1 375.0	Abandoned-dry
6106	Texaco et al Oak 8-12-87-18	84 08 10	84 08 22	1 435.0	Boundary Lake oil
6070	Texaco et al N Thetlaandoa d-10-B	84 03 27	84 04 02	565.0	Abandoned
6078	Total CEGO Squirrel 14-24-87-19	84 06 16	84 06 29	1 365.0	Abandoned-dry
6135	Tri Star et al Moberly 7-31-82-22	84 12 31			Drilling
5959	Ultramar et al Crush d-46-F	84 02 05	84 02 14	1 195.0	Halfway gas
5831	Ultramar et al Peejay c-96-D	83 12 30	84 01 08	1 212.0	Halfway oil
6051	Union Wildmint c-36-A	84 03 19	84 03 30	1 163.5	Halfway gas
5899	Union Wildmint d-99-L	84 01 12	84 01 21	1 153.0	Abandoned-dry
6113	Westburne et al Milligan d-26-J	84 09 28	84 10 06	1 165.0	Abandoned-dry
5898	Westmin W Weasel d-62-C	84 01 05	84 01 18	1 183.0	Abandoned-dry
6011	Wincan et al Kimea d-57-D	84 03 06	84 03 18	635.0	Abandoned-dry
5990	Wincan et al N Thetlaandoa d-57-C	84 02 22	84 03 04	554.7	Debolt gas

Table P8 - Summary of Drilling and Production Statistics, 1984

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Well authorizations issued	57	79	56	1	16	9	9	9	7	7	27	51	284
Well authorizations cancelled	1	4	0	2	4	--- --- -	--- --- -	1	2	--- --- -	1	--- --- -	15
Wells spudded	35	49	52	1	--- --- -	9	8	6	5	9	11	17	198
Rigs operated (during month)	25	32	31	15	5	12	6	7	8	10	15	16	45[1]
Rigs operating (at month end)	22	27	13	5	3	8	5	6	5	8	7	15	
Metres Drilled -													
Development	11 513.0	14 541.7	14 535.4	4 044.0	--- --- -	2 759.0	12 295.0	5 223.0	5 349.0	4 643.0	9 796.9	8 406.9	90 670.9
Exploratory Outpost	8 912.6	14 239.0	33 904.7	1 230.0	--- --- -	5 197.0	--- --- -	1 667.0	6 375.0	3 863.0	6 192.0	4 182.0	85 760.3
Exploratory Wildcat	5 218.0	8 461.8	22 687.0	5 502.0	--- --- -	--- --- -	7 396.0	6 584.9	--- --- -	--- --- -	2 973.8	--- --- -	58 823.5
Totals	25 643.6	37 242.5	70 931.1	10 776.0	--- --- -	7 956.0	19 651.0	11 474.9	11 722.0	8 506.0	18 962.7	12 588.9	235 254.7
Oil wells	15	18	21	--- --- -	--- --- -	2	2	2	2	4	2	4	72
Gas wells	5	6	13	2	--- --- -	1	2	2	2	--- --- -	3	1	37
Abandoned wells	9	6	12	7	--- --- -	1	6	5	2	1	7	4	54
Service wells	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -
Standing wells	4	12	22	2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1	--- --- -	--- --- -	41
Totals	29	42	68	11	--- --- -	4	10	7	6	6	12	9	204
Producible oil wells	973	988	1 005	1 015	1 019	1 022	1 025	1 026	1 027	1 029	1 028	1 022	--- --- -
Producing oil wells	677	694	689	691	685	687	677	685	683	673	671	683	--- --- -
Production in m^3	179 594.2	171 796.6	177 179.2	178 230.5	175 483.5	168 706.3	173 256.8	173 449.0	173 690.1	176 557.1	167 759.1	174 402.7	2 094 155.6
Average daily production	5 793.4	6 135.6	5 715.5	5 941.0	5 660.8	5 623.5	5 588.9	5 591.9	5 789.7	5 695.4	5 582.0	5 625.9	5 721.7
Producible gas wells	1 951	1 954	1 964	1 962	1 960	1 964	1 964	1 969	1 969	1 970	1 975	1 979	--- --- -
Producing gas wells	630	691	507	358	385	476	432	392	414	407	561	621	--- --- -
Production in 10^3m^3 (raw)	1 079 170.7	804 744.3	653 146.3	625 576.2	540 453.7	342 809.2	359 116.1	351 209.6	385 198.3	560 945.2	910 992.5	1 140 701.1	7 760 368.1[2]
Average daily production (raw)	34 812.0	28 740.0	21 069.2	20 785.9	17 434.0	11 426.8	11 584.4	11 329.8	12 839.9	18 095.0	30 366.4	36 796.8	21 227.8

SUMMARY FOR 1984

Drilled	
Locations drilled	197
Multizone wells	6
Re-entries	1
Totals	204

Completions	
Oil wells*	72
Gas wells*	37
Service wells	—
Standing wells	41
Abandoned	54
Totals	204

1 Rigs operated during 1984
2 Non-associated gas production only
* Each zone of a multizone well is counted as one well

Table P9 - Monthly Crude Oil and Condensate Production by Field and Pools

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Airport -													
Halfway B	32.7	26.9	31.9	24.2	29.7	12.2	--- --- -	--- --- -	--- --- -	--- --- -	21.7	14.7	193.1
Aitken Creek -													
Gething A	1 067.9	945.8	1 069.8	1 106.9	1 094.5	971.9	1 043.2	1 009.6	1 000.8	1 062.4	786.9	1 013.8	12 173.5
Bear Flat -													
Bear Flat A	205.7	191.9	213.4	193.4	213.0	170.0	214.1	105.8	213.1	216.5	231.4	220.1	2 410.3
Beatton River -													
Halfway A	3 082.2	2 799.4	2 990.9	2 849.2	2 856.9	2 744.2	2 811.1	2 595.4	2 990.9	2 972.0	2 416.4	2 106.7	31 894.6
Halfway C	59.0	56.3	42.8	125.3	45.8	43.7	80.8	50.6	41.1	59.0	50.8	82.9	737.7
Halfway D	657.1	619.2	659.2	637.8	530.5	586.4	582.5	578.8	565.0	589.4	513.4	502.6	7 031.9
Totals	3 798.3	3 474.9	3 692.9	3 612.3	3 413.2	3 384.3	3 674.4	3 224.9	3 596.4	3 220.4	2 981.0	3 091.8	39 664.2
Beatton River West -													
Bluesky A	3 033.4	2 729.9	2 855.5	2 641.2	2 526.9	2 623.9	1 775.2	2 566.1	2 503.8	2 194.7	2 184.3	2 175.1	29 611.8
Beaverdam -													
Upper Halfway A[1]	22.6	18.5	7.8	13.4	16.5	15.9	14.1	19.1	16.5	18.9	17.6	20.2	204.7
Beavertail -													
Halfway B	144.1	142.6	151.9	163.1	158.4	165.7	252.9	186.3	165.0	175.5	163.0	--- --- -	1 827.7
Birch -													
Baldonnel B[1]	42.9	98.1	28.2	--- --- -	--- --- -	45.5	78.1	42.0	8.2	--- --- -	--- --- -	65.0	548.8
Baldonnel C	659.0	489.0	807.8	669.0	516.9	519.0	541.6	497.4	619.1	723.4	713.7	752.6	6 884.5
Totals	701.9	587.1	823.8	669.0	516.9	564.5	611.7	539.4	627.3	723.4	713.7	815.6	7 234.1
Blueberry -													
Debolt A	2 794.5	2 589.8	3 000.6	2 825.1	2 729.1	2 648.7	2 641.8	2 290.5	2 599.8	2 599.7	2 667.7	2 932.0	31 830.9
Debolt B	1 599.7	1 486.6	1 599.3	1 433.7	1 547.3	1 451.4	1 517.2	1 336.9	1 418.0	1 533.6	1 499.1	1 384.9	17 607.7
Totals	4 394.2	4 076.4	4 599.9	4 258.8	4 272.4	4 100.1	4 158.6	3 627.4	3 973.8	4 093.3	4 166.8	3 916.9	49 438.6
Boundary Lake -													
Baldonnel B[1]	1.3	7.1	7.7	6.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.2	5.4	28.0
Cecil A	23.6	26.7	--- --- -	15.2	18.4	9.1	7.9	5.9	11.0	6.7	165.8	1.6	294.9
Cecil B	2.3	--- --- -	6.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.9	--- --- -	--- --- -	--- --- -	14.6
Boundary Lake A	60 587.2	57 925.7	55 543.7	58 606.8	57 190.5	54 090.2	59 091.2	58 355.0	56 419.0	59 573.4	57 185.7	58 012.0	692 984.4
Halfway A	498.9	514.0	475.2	555.1	1 045.8	841.0	1 158.9	900.2	972.8	984.9	972.2	982.6	9 881.2
Totals	61 116.9	58 473.5	56 033.0	59 183.4	58 254.7	54 940.3	60 257.0	59 260.5	57 408.7	60 565.0	58 326.9	58 999.6	702 804.1
Boundary Lake North -													
Halfway B[1]	249.0	36.6	--- --- -	--- --- -	151.7	85.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	524.9
Halfway C[1]	161.9	205.4	244.9	126.4	157.9	148.9	176.1	206.0	256.7	208.8	149.1	224.5	2 226.2
Halfway D	--- --- -	150.4	121.0	245.1	114.0	251.4	331.2	306.8	309.2	291.4	281.8	271.8	2 970.1
Totals	407.9	392.4	365.9	371.5	403.2	486.9	507.3	512.8	539.9	500.2	430.9	496.3	5 410.8

[1] Condensate

Table P9 - Monthly Crude Oil and Condensate Production by Fields and Pools - Continued

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Bulch Creek -													
Dunlevy A	--- --- -	--- --- -	10.9	34.7	31.8	24.1	29.5	23.3	23.3	25.9	--- --- -	--- --- -	202.4
Dunlevy C[1]	160.7	191.5	25.5	--- --- -	--- --- -	35.1	70.4	72.0	48.0	1.0	94.7	125.4	784.3
Doig A	441.5	434.9	421.2	427.8	373.0	441.1	369.1	407.6	401.2	382.4	268.6	321.5	4 690.9
Doig B	559.6	716.3	809.5	726.7	650.2	249.4	792.8	807.8	722.6	718.6	807.2	702.7	8 063.4
Totals	1 161.8	1 302.7	1 267.0	1 189.2	1 055.0	749.7	1 261.8	1 309.7	1 195.1	1 127.9	970.5	1 149.6	13 740.0
Bulch Creek West -													
Gething A	51.2	41.5	56.4	48.7	48.4	50.2	92.0	48.9	33.9	30.7	32.1	--- --- -	494.0
Dunlevy C	30.4	25.6	10.7	38.9	31.5	32.0	34.8	26.8	--- --- -	--- --- -	1.4	2.7	234.6
Totals	81.6	67.1	67.1	87.6	79.9	82.2	86.6	75.7	33.9	30.7	33.5	2.7	728.6
Bulrush -													
Halfway A	414.2	437.7	450.9	451.7	493.0	408.7	415.0	373.3	394.2	394.5	295.2	486.4	5 005.8
Halfway B	18.9	18.1	22.7	21.0	16.9	20.2	23.1	19.6	18.5	11.0	--- --- -	--- --- -	191.8
Totals	433.1	455.8	456.6	472.7	513.9	428.9	438.1	392.9	412.7	406.5	295.2	486.4	5 201.6
Bulrush East -													
Halfway A	274.2	296.9	231.9	168.4	115.0	101.9	88.7	74.2	54.2	63.5	48.9	42.1	1 559.9
Cecil Lake -													
Siphon A	44.0	38.5	43.8	42.1	38.1	41.6	40.9	40.2	40.5	39.1	36.5	35.8	454.9
Cecil A	453.1	473.9	496.8	156.0	497.6	379.1	384.4	375.9	483.9	486.0	441.8	484.7	5 033.2
Cecil B	184.7	176.1	146.6	145.8	150.9	134.3	139.4	128.8	178.4	182.9	175.3	195.9	1 903.9
North Pine A	731.4	731.9	729.8	696.3	719.7	531.9	642.9	601.9	633.3	707.6	699.4	572.9	7 990.6
North Pine A[1]	62.6	60.6	65.2	43.7	52.5	62.5	81.6	62.7	46.6	50.9	67.2	48.1	676.9
North Pine B	109.8	199.1	138.0	156.6	144.2	139.8	84.8	115.6	88.0	88.2	73.1	98.6	1 349.8
North Pine C	327.0	158.9	400.6	591.1	335.9	655.5	412.6	589.1	636.4	401.9	428.2	491.3	5 866.5
Totals	1 908.6	1 796.0	2 019.8	1 831.6	2 099.3	1 927.5	1 786.5	1 911.8	2 127.1	1 956.2	1 917.5	1 821.9	23 099.8
Crush -													
Halfway A	660.4	634.7	661.8	544.0	586.9	585.0	643.7	666.7	630.4	643.1	628.1	646.9	7 926.7
Current -													
Halfway A	525.9	425.7	913.3	590.5	525.0	469.4	523.0	531.9	558.9	561.8	553.2	425.9	6 222.0
Dixon -													
Shunda A	--- --- -	--- --- -	24.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	24.8
Shunda B	33.0	--- --- -	63.9	18.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	116.0
Shunda C	19.7	10.9	33.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	66.6
Pouce A	34.8	71.8	70.0	67.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	243.8
Pouce C	--- --- -	78.5	135.0	264.1	30.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	154.9	663.4
Pouce E	--- --- -	--- --- -	78.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	43.9	122.6
Totals	87.7	160.8	404.0	350.0	30.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	72.3	151.0
Drake -												270.6	1 386.6
Halfway B	155.2	222.3	156.7	161.3	100.0	168.1	--- --- -	--- --- -	14.9	--- --- -	--- --- -	--- --- -	972.9

Eagle -													
Siphon A	23.7	20.4	21.9	20.7	14.2	14.7	10.9	6.5	--- --- -	--- --- -	--- --- -	--- --- -	131.6
Bailey B	4 748.1	5 421.7	5 851.9	6 950.6	7 127.3	5 826.5	4 994.0	5 805.7	6 268.9	5 442.2	5 418.8	6 197.8	70 051.9
Bailey B[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1.8	21.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	23.2
Totals	4 768.8	5 442.1	5 873.4	6 971.1	7 141.5	5 842.6	5 026.3	5 812.2	5 779.0	5 442.2	5 418.8	6 197.8	70 209.9
Eagle West -													
Bailey A	38 143.9	36 392.4	39 221.3	38 709.9	37 849.9	39 543.2	39 095.7	37 484.3	37 745.0	37 798.9	35 293.1	37 143.3	494 321.9
Firesteel -													
Dunlay B[1]	145.1	138.3	47.9	29.3	--- --- -	.6	8.1	--- --- -	--- --- -	--- --- -	76.2	108.0	548.9
Dunlay D	101.0	52.0	.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	76.1	89.7	299.6
Totals	246.1	190.3	48.1	29.3	--- --- -	.6	8.1	--- --- -	--- --- -	--- --- -	152.3	197.7	848.5
Flatrock -													
Boundary A	19.4	25.9	22.0	36.1	32.8	35.9	34.6	27.9	33.6	30.4	3.1	16.4	306.7
Boundary B	377.0	360.1	349.8	360.6	351.1	326.7	332.1	319.5	319.0	326.7	315.3	342.5	4 037.5
Boundary C	46.1	135.9	79.8	--- --- -	--- --- -	133.6	--- --- -	104.1	188.8	193.9	196.4	103.8	1 101.8
Halfway A[1]	45.9	61.6	16.7	28.7	40.9	16.0	56.0	92.1	22.3	86.1	29.3	23.1	463.5
Halfway E	889.5	778.1	690.3	602.7	892.3	702.9	345.7	319.6	787.3	759.9	311.2	798.4	7 819.9
Halfway I[1]	72.1	104.0	88.9	79.1	79.0	44.7	9.0	--- --- -	--- --- -	--- --- -	49.8	75.9	591.1
Totals	1 690.9	1 422.6	1 201.1	1 087.2	1 380.7	1 259.8	755.4	822.8	1 360.0	1 331.2	881.1	1 393.9	14 322.7
Flatrock West -													
Dunlay	--- --- -	--- --- -	15.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	15.0
Fort St. John -													
North Pine A	648.8	593.1	608.4	673.7	923.2	328.4	438.2	305.7	481.7	596.3	409.5	433.0	5 970.0
North Pine C	109.3	110.6	--- --- -	--- --- -	--- --- -	--- --- -	100.5	101.3	108.6	105.7	87.7	--- --- -	721.7
Totals	756.1	703.7	608.4	673.7	923.2	328.4	538.7	407.0	590.3	460.0	497.2	433.0	6 286.7
Halfway North -													
Jean Marie A[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	12.7	10.0	22.7
Inga -													
Inga A	11 691.6	11 364.8	11 868.9	11 146.3	11 565.9	8 571.6	11 095.2	11 040.6	11 279.1	10 845.7	10 807.0	10 388.1	131 622.8
Inga B	51.2	48.4	54.4	41.4	36.0	44.7	48.1	40.6	43.5	41.5	41.8	47.1	538.7
Totals	11 742.8	11 413.2	11 923.3	11 187.7	11 601.9	8 616.3	11 101.3	11 081.2	11 322.6	10 887.2	10 848.8	10 435.2	132 161.5
Jedney -													
Baldonnel A[1]	15.1	11.6	15.2	8.5	--- --- -	8.6	15.1	--- --- -	--- --- -	--- --- -	2.0	13.8	89.9
Halfway A[1]	5.6	4.3	2.1	5.7	--- --- -	5.4	3.8	--- --- -	--- --- -	--- --- -	.9	10.3	38.1
Totals	20.7	15.9	17.3	14.2	--- --- -	14.0	18.9	--- --- -	--- --- -	--- --- -	2.9	24.1	128.0
Laprise -													
Baldonnel A[1]	15.9	13.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	29.4
Mica -													
Mica A	547.2	495.9	506.1	214.4	419.5	441.7	532.4	499.7	376.7	413.3	406.5	550.3	5 383.7
North Pine A	245.2	214.4	178.4	110.9	193.0	205.2	158.0	153.5	207.8	179.2	192.5	233.1	2 231.2
Totals	792.4	710.3	684.5	325.3	612.5	690.9	690.4	653.2	584.5	592.5	599.0	783.4	7 614.9

[1] Condensate

Table P9 - Monthly Crude Oil and Condensate Production by Fields and Pools - Continued

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Mike -													
Gething A	580.6	167.2	67.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	325.2	1 140.0
Milligan Creek -													
Gething B	32.8	23.2	36.9	93.1	39.1	46.1	39.5	17.3	36.4	24.5	10.5	9.3	368.7
Halfway A	7 641.0	7 190.2	7 918.8	8 023.2	8 128.0	7 500.4	7 842.1	7 580.3	6 950.1	7 550.5	6 747.7	6 934.7	90 007.0
Totals	7 673.8	7 213.4	7 955.7	8 076.3	8 167.1	7 546.5	7 881.6	7 597.6	6 986.5	7 575.0	6 758.2	6 944.0	90 375.7
Nettle -													
Gething A	115.4	150.2	4.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	82.6	352.6
Nig Creek -													
Baldonnel A[1]	--- --- -	--- --- -	.2	78.0	38.0	70.3	97.2	52.8	37.7	22.0	--- --- -	--- --- -	365.2
North Pine -													
North Pine B	122.7	130.4	66.2	108.7	107.8	115.1	124.2	108.4	132.0	102.5	94.5	126.4	1 340.9
Oak -													
Cecil B	98.2	91.3	98.4	96.4	98.5	95.7	95.6	114.4	104.3	101.0	97.1	98.4	1 191.3
Halfway A[1]	419.1	229.6	165.7	229.6	256.9	135.7	80.8	21.0	39.9	--- --- -	294.5	427.3	2 300.1
Halfway S	1 392.4	1 692.2	1 699.2	1 764.8	1 734.7	1 569.0	1 629.1	1 788.3	1 830.0	1 969.2	1 471.9	1 665.5	19 406.3
Totals	1 910.7	2 013.1	1 764.3	2 090.8	2 090.1	1 800.4	1 805.5	1 923.7	1 774.2	1 670.2	1 863.5	2 191.2	22 897.7
Osprey -													
Halfway A	290.9	246.8	261.1	199.4	214.6	93.1	129.6	225.7	219.6	204.0	260.0	215.4	2 560.2
Halfway A[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	76.3	205.1	187.7	220.9	181.0	--- --- -	--- --- -	871.0
Totals	290.9	246.8	261.1	199.4	214.6	169.4	334.7	413.4	440.5	385.0	260.0	215.4	3 431.2
Peejay -													
Halfway	11 794.0	11 198.2	11 490.3	10 665.6	10 542.8	10 262.6	10 418.4	9 567.7	10 103.1	10 495.9	10 532.8	10 734.7	127 766.1
Halfway L	34.2	35.8	33.9	36.1	34.3	29.5	35.4	44.4	46.2	43.1	54.0	49.4	476.3
Totals	11 828.2	11 234.0	11 524.2	10 701.7	10 577.1	10 292.1	10 453.8	9 612.1	10 149.3	10 499.0	10 586.8	10 784.1	128 242.4
Peejay West -													
Halfway A	529.3	463.8	526.7	455.1	564.9	256.7	308.8	447.1	508.0	522.8	427.1	526.5	5 536.2
Pickell -													
Halfway A[1]	--- --- -	12.1	48.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	60.1
Pintail -													
Coplin A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	4.5	9.4	13.9
Rigel -													
Dunlevy A	235.8	212.4	203.2	42.1	45.6	164.2	214.2	229.8	176.6	180.4	167.2	467.1	2 338.6
Dunlevy B	28.2	7.0	--- --- -	--- --- -	--- --- -	6.5	29.0	30.1	27.5	26.7	22.1	28.0	205.1
Dunlevy E	212.0	196.4	211.4	199.0	139.8	87.5	52.6	76.7	64.5	103.1	62.3	--- --- -	1 405.1
Dunlevy I	112.3	98.0	129.6	104.2	72.3	99.8	119.6	90.0	123.5	110.2	124.8	117.2	1 300.9
Totals	588.3	513.8	543.2	345.3	257.7	358.0	415.4	426.6	391.9	420.4	376.4	612.5	5 249.5

Siphon -													
Dunlevy A[1]	150.9	78.0	61.7	--- --- -	--- --- -	15.1	18.5	33.6	26.3	40.1	23.4	15.4	463.0
Dunlevy C	25.1	24.4	24.3	25.8	23.8	22.8	21.8	24.3	22.2	17.8	16.0	17.2	265.5
Totals	176.0	102.4	86.0	25.8	23.8	37.9	40.3	57.9	48.5	57.9	39.4	32.6	728.5
Siphon East -													
Bluesky A	47.8	42.3	44.6	40.3	35.4	39.1	2.9	3.4	48.0	46.2	42.1	40.7	432.4
Squirrel -													
North Pine A	187.4	149.3	184.5	141.3	217.4	149.7	168.2	198.4	158.0	110.1	165.7	202.8	2 040.8
North Pine B	21.6	19.4	20.5	18.0	17.0	16.3	18.8	18.0	61.0	15.2	23.6	17.1	266.5
Totals	209.0	168.7	205.0	159.3	234.4	166.0	187.0	216.4	229.0	125.3	187.3	219.9	2 307.3
Stoddart -													
Cecil A	26.4	24.9	28.8	31.6	17.8	28.4	26.5	28.9	28.1	21.8	25.6	23.4	312.2
Cecil B	174.5	194.4	206.3	198.1	193.9	200.5	195.6	108.5	187.9	204.3	137.8	125.2	2 127.0
Cecil C	202.7	172.3	116.0	123.0	162.5	127.8	135.4	72.3	73.1	99.8	79.3	120.4	1 484.6
Cecil F[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	30.1	30.1
Dalloy A	65.4	60.7	68.3	23.0	21.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	29.9	268.6
Dalloy C	386.4	310.0	210.8	223.2	350.2	287.3	271.1	260.0	232.3	236.4	237.0	208.9	3 213.6
Totals	855.4	762.3	630.2	598.9	745.7	644.0	628.6	469.7	521.4	562.3	479.7	537.9	7 436.1
Stoddart South -													
Dalloy A	693.2	629.6	688.4	656.1	626.1	660.3	646.9	634.6	652.5	637.4	637.5	662.0	7 824.6
Stoddart West -													
Bear Flat A	114.7	97.7	87.9	98.7	27.6	86.0	10.2	34.2	9.3	--- --- -	31.1	40.2	637.6
Doig B	97.7	81.1	90.1	68.6	136.6	130.6	91.4	100.6	96.6	99.6	83.5	82.7	1 128.1
Dalloy A[1]	333.0	274.6	309.7	287.8	290.4	238.8	178.9	215.5	109.0	223.7	248.1	248.9	2 998.4
Dalloy C	5 062.2	4 717.2	6 043.1	6 210.0	6 851.2	6 459.0	6 214.5	6 862.8	6 583.0	6 828.9	6 144.3	6 427.4	74 403.6
Dalloy D[1]	29.3	18.9	12.9	--- --- -	--- --- -	9.1	30.2	2.0	--- --- -	--- --- -	27.2	14.0	143.6
Totals	5 636.9	5 189.5	6 543.7	6 665.1	7 305.8	6 896.5	6 525.2	7 215.1	6 797.9	7 148.2	6 534.2	6 813.2	79 271.3
Taoga -													
Confidential	--- --- -	10.5	34.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	45.0
Two Rivers -													
Halfway B	85.5	45.2	50.9	5.2	--- --- -	34.4	88.6	3.3	32.8	37.5	43.7	65.5	492.6
Wessel -													
Halfway	6 766.1	6 734.4	7 169.1	6 989.6	5 696.8	7 200.2	7 218.6	7 285.3	7 011.3	7 235.7	6 546.5	7 638.5	83 493.1
Halfway[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	9.1	9.1
Halfway B	8.6	5.0	99.0	190.6	117.0	98.9	108.1	98.2	254.2	200.5	186.0	127.7	1 496.8
Halfway F	37.9	101.1	49.1	5.2	.3	31.1	31.0	71.1	89.3	23.0	12.2	21.5	472.8
Confidential	--- --- -	164.5	635.2	936.6	194.7	199.4	485.2	445.2	553.3	489.3	433.4	478.3	5 195.1
Totals	6 812.6	6 985.0	7 952.4	8 122.0	6 008.8	7 529.6	7 842.9	7 899.8	7 908.1	7 948.5	7 181.1	8 276.1	90 666.9
Wessel West -													
Halfway A	950.6	855.1	908.7	675.9	495.5	821.1	826.8	727.8	719.6	813.4	778.5	835.2	9 409.2
Halfway B	17.0	59.5	57.0	46.8	15.6	13.9	--- --- -	8.9	38.7	44.6	39.1	41.6	382.7
Totals	967.6	914.6	965.7	722.7	511.1	835.0	826.8	736.7	758.3	858.0	818.6	876.8	9 791.9

[1] Condensate

Table P9 - Monthly Crude Oil and Condensate Production by Fields and Pools - Continued

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Wildmint -													
Upper Halfway A	371.7	267.0	330.6	331.9	253.0	301.3	203.2	169.3	207.9	293.5	234.5	300.4	3 264.3
Halfway A	3 413.6	3 119.1	3 447.2	3 053.5	3 092.4	2 897.4	2 440.8	3 089.9	3 430.4	3 226.3	3 128.8	3 219.7	37 519.1
Totals	3 785.3	3 386.1	3 777.8	3 385.4	3 345.4	3 198.7	2 644.0	3 259.2	3 638.3	3 519.8	3 363.3	3 520.1	40 783.4
Willow -													
Gething A	141.1	120.2	97.9	121.2	124.8	108.9	115.1	107.6	113.8	123.9	110.5	100.9	1 385.9
Wolf -													
Halfway A	636.7	622.6	811.2	775.0	837.6	746.6	693.1	909.0	864.0	821.1	876.7	778.2	9 557.8
Woodrush -													
Halfway A[1]	15.9	7.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	13.6	--- --- -	6.7	--- --- -	43.4
Other Areas -													
Septimus	68.6	11.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	80.0
Inga	69.6	65.7	64.9	78.1	55.4	58.8	57.1	52.4	52.7	50.1	57.2	55.2	715.2
Mississippian	--- --- -	--- --- -	11.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	11.6
Pubisko	--- --- -	--- --- -	2.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2.8
Confidential	--- --- -	.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	34.5	7.8	91.6	149.9	284.5
Confidential B	22.9	3.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	26.8
Totals	161.1	79.7	79.3	78.1	55.4	58.8	57.1	52.4	87.2	57.9	148.8	205.1	1 120.9
Totals -													
Crude	180 005.3	172 333.0	178 259.8	178 561.9	175 702.8	169 264.1	174 100.2	173 435.8	173 598.5	176 589.8	167 799.9	174 402.7	2 094 155.6
Condensate	2 020.4	1 532.2	1 205.2	969.5	1 074.9	994.1	1 096.4	966.5	819.7	839.5	1 098.6	1 489.3	14 102.3
Totals	182 025.7	173 865.2	179 465.0	179 631.3	176 777.7	170 260.2	175 196.6	174 402.3	174 418.2	177 429.3	168 898.4	175 892.0	2 108 257.9

[1] Condensate

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Airport -													
Bluesky A	291.5	277.5	295.2	279.3	290.1	83.3	--- --- -	--- --- -	--- --- -	--- --- -	392.3	330.2	2 239.4
Dunlevy A	721.6	565.1	377.7	358.7	426.2	369.1	91.7	--- --- -	--- --- -	--- --- -	60.4	617.8	3 588.3
Halfway B[1]	45.3	36.0	52.0	49.5	51.3	22.6	--- --- -	--- --- -	--- --- -	--- --- -	71.9	27.0	355.6
Totals	1 058.4	878.6	724.9	687.5	767.6	475.0	91.7	--- --- -	--- --- -	--- --- -	524.6	975.0	6 183.3
Aitken Creek -													
Gething A[1]	3 826.0	3 846.5	4 037.0	4 059.8	4 005.9	4 022.5	4 030.0	4 052.1	3 747.2	4 130.2	3 464.8	3 828.8	47 050.8
Attachie -													
Upper Kiskatinaw A	3 149.4	2 698.9	2 052.1	1 711.0	1 006.8	795.7	--- --- -	--- --- -	--- --- -	--- --- -	322.2	2 141.7	13 877.8
Bear Flat -													
Bear Flat A[1]	1 503.8	1 375.7	1 480.0	652.8	1 485.4	1 253.7	1 531.4	795.3	1 473.5	1 483.5	1 475.4	1 444.0	15 954.5
Beatton River -													
Halfway A[1]	85.6	76.6	137.9	93.3	103.4	111.9	84.5	128.0	125.1	139.1	113.4	99.7	1 298.5
Halfway C[1]	26.2	37.9	22.5	86.9	48.2	36.9	37.7	31.7	27.2	32.7	1.3	30.2	419.4
Halfway D[1]	159.8	164.2	151.4	148.8	137.4	140.2	132.6	137.9	144.4	140.8	120.8	126.9	1 705.0
Totals	271.6	278.7	311.8	329.0	289.0	289.0	254.8	297.6	296.7	312.4	235.5	256.8	3 422.9
Beatton River West -													
Bluesky A[1]	160.2	143.6	131.4	153.5	169.4	172.2	113.3	181.3	153.1	156.1	152.7	148.0	1 834.8
Beaverdam -													
Upper Halfway A	1 743.7	1 606.8	1 634.9	1 434.1	1 336.0	1 255.6	1 033.2	1 530.9	1 398.1	1 368.4	1 360.7	1 576.2	17 278.6
Beavertail -													
Gething A	8 905.9	5 476.3	4 382.2	5 765.2	5 693.2	4 130.8	1 922.4	526.3	481.0	2 086.8	2 526.5	7 916.6	49 821.2
Halfway B[1]	8.5	11.7	11.9	12.9	12.1	12.4	19.2	14.1	18.1	14.0	14.4	--- --- -	149.3
Totals	8 918.4	5 490.0	4 394.1	5 778.1	5 705.3	4 143.2	1 941.6	542.4	499.1	2 100.8	2 540.9	7 916.6	49 970.5
Beg -													
Baldonnel B	5 488.8	5 468.0	1 978.9	1 760.7	2 907.0	2 758.0	4 153.0	3 254.9	2 985.2	234.1	5 379.1	5 310.7	41 678.4
Baldonnel C	484.1	47.8	460.3	--- --- -	--- --- -	1 315.1	2 183.5	1 242.6	1 438.9	1 464.9	1 190.2	2 264.0	12 089.4
Halfway A	7 312.2	5 981.8	2 726.2	1 653.7	3 531.5	3 022.4	5 177.1	2 318.0	5 934.1	4 166.4	8 331.9	8 874.9	59 029.8
Totals	13 285.1	11 497.6	5 165.4	3 414.4	6 438.5	7 095.5	11 513.6	6 815.5	10 358.2	5 865.4	14 900.8	16 449.6	112 797.6
Bernadet -													
Bluesky C	363.1	415.5	328.1	342.0	378.9	192.1	33.1	--- --- -	--- --- -	--- --- -	--- --- -	204.8	2 257.6
Dunlevy A	1 335.1	1 193.1	555.6	1 253.0	901.0	557.8	171.7	--- --- -	--- --- -	--- --- -	152.7	1 030.4	6 750.4
Totals	1 698.2	1 608.6	883.7	1 595.0	879.9	749.9	204.8	--- --- -	--- --- -	--- --- -	152.7	1 235.2	9 008.0
Birch -													
Gething B	42.4	39.9	10.4	--- --- -	--- --- -	23.3	47.5	46.5	5.4	--- --- -	20.1	40.1	275.6
Baldonnel A	191.9	169.0	41.0	--- --- -	35.3	147.3	186.1	150.6	20.2	--- --- -	9.3	147.0	1 097.7
Baldonnel B	995.9	800.5	196.0	--- --- -	499.3	933.7	797.0	939.1	106.1	--- --- -	422.8	1 445.3	7 135.7
Baldonnel C[1]	95.5	99.6	97.5	97.5	73.0	99.2	126.7	91.0	105.1	163.1	157.1	141.8	1 347.1
Halfway A	679.5	664.4	158.0	--- --- -	316.1	383.4	617.0	614.1	73.8	19.0	75.2	609.2	4 209.7
Totals	2 005.2	1 773.4	502.9	97.5	923.7	1 586.9	1 774.3	1 841.3	310.6	182.1	684.5	2 383.4	14 065.8

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Blueberry -													
Dunlevy A	971.2	638.1	922.4	760.5	845.9	819.3	847.9	654.8	778.0	857.4	1 083.6	1 145.9	10 325.0
Dunlevy B	1 292.4	1 109.3	599.0	481.6	543.0	369.5	269.7	363.1	210.9	214.2	537.8	812.2	6 802.7
Baldonnel B	161.8	284.9	422.5	386.6	393.5	214.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	47.5	1 913.1
Debolt A[1]	541.4	561.3	583.6	569.5	519.1	478.4	499.7	536.6	549.6	488.5	481.8	449.8	6 261.3
Debolt B[1]	2 001.7	2 073.6	1 796.0	1 828.4	1 930.8	1 678.4	1 823.3	1 465.8	1 862.7	1 773.4	1 798.5	1 801.5	21 636.1
Totals	4 968.5	4 667.2	4 325.5	4 028.6	4 232.3	3 559.9	3 440.6	3 022.3	3 401.2	3 333.5	3 901.7	4 056.9	46 938.2
Boundary Lake -													
Gething A	214.9	681.2	844.2	692.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	86.2	812.8	792.3	4 124.4
Baldonnel B	424.8	1 001.8	1 219.3	1 268.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	204.3	1 803.5	1 791.6	7 713.8
Baldonnel C	246.9	590.9	622.3	503.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	41.3	682.6	619.1	3 306.3
Cecil A[1]	8.2	11.0	--- --- -	11.3	11.2	9.4	9.4	7.5	9.4	7.9	7.4	1.4	84.7
Cecil B[1]	.5	--- --- -	1.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1.6	--- --- -	--- --- -	--- --- -	3.3
Boundary Lake A[1]	5 276.7	5 036.8	4 319.6	4 950.6	5 000.2	4 972.4	5 398.4	5 595.4	5 284.2	5 537.4	5 248.8	5 438.4	62 078.9
Basal Boundary A	57.2	158.5	175.3	134.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	17.0	144.2	154.2	841.3
Halfway[1]	78.7	70.6	69.8	125.4	645.2	548.7	815.7	450.9	468.7	487.5	399.2	449.3	4 604.8
Totals	6 307.9	7 550.8	7 251.7	7 686.7	5 656.6	5 530.5	6 223.5	6 052.9	5 763.9	6 401.6	9 094.5	9 246.3	82 766.9
Boundary Lake North -													
Halfway B	1 728.5	222.0	--- --- -	751.4	1 359.7	400.2	--- --- -	--- --- -	--- --- -	--- --- -	1 235.2	1 099.9	6 796.9
Halfway C	639.5	593.7	624.3	338.2	489.6	373.5	496.8	618.6	668.6	582.9	341.1	703.7	6 470.5
Halfway D[1]	--- --- -	26.6	11.4	24.4	16.6	37.3	73.1	63.1	41.8	53.5	35.7	39.4	422.9
Halfway E	111.1	22.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	133.8
Totals	2 479.1	865.0	635.7	1 114.0	1 865.9	811.0	569.9	681.7	710.4	636.4	1 612.0	1 843.0	13 824.1
Bubbles -													
Baldonnel A	6 391.5	5 349.3	1 679.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5 287.5	4 333.5	23 041.4
Bubbles North -													
Baldonnel A	1 979.0	2 229.7	894.4	878.5	628.0	1 202.5	330.5	--- --- -	1 707.5	1 508.2	2 123.6	2 251.8	15 733.8
Buick Creek -													
Bluesky A	834.7	751.9	202.7	--- --- -	--- --- -	378.3	744.7	738.2	168.8	--- --- -	543.9	619.3	4 982.5
Bluesky C	3 109.3	2 700.1	483.8	--- --- -	--- --- -	1 304.7	2 006.2	2 251.8	2 385.0	432.0	2 972.6	3 099.9	20 745.4
Bluesky D	114.4	243.2	66.1	--- --- -	--- --- -	170.9	58.2	49.4	223.9	265.1	210.4	275.8	1 677.4
Gething A	88.6	94.0	18.1	--- --- -	--- --- -	169.0	126.9	88.1	21.0	--- --- -	37.2	130.0	772.9
Dunlevy A	7 028.9	4 620.3	134.4	--- --- -	--- --- -	1 788.2	3 148.9	5 034.8	4 038.2	3 762.3	5 190.4	6 044.0	40 791.6
Dunlevy A[1]	--- --- -	--- --- -	.5	4.6	5.1	4.8	4.5	5.5	7.6	3.7	--- --- -	--- --- -	36.3
Dunlevy B	6 500.6	5 330.5	1 273.5	--- --- -	--- --- -	2 186.6	3 979.7	2 771.9	1 622.5	129.9	3 599.3	5 567.7	32 958.2
Dunlevy C	5 460.9	5 230.7	1 097.0	136.6	135.1	1 911.6	4 015.3	3 965.0	3 276.0	2 279.8	2 474.0	4 591.9	34 573.9
Dunlevy G	52.6	51.4	16.0	--- --- -	--- --- -	99.1	157.6	10.8	--- --- -	7.4	38.1	135.7	564.5
Dunlevy H	2 591.8	2 458.6	612.3	--- --- -	147.5	1 491.8	2 451.2	1 695.7	264.8	32.5	935.7	1 403.4	14 085.3
Dunlevy I	3 201.9	2 061.8	345.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	442.1
Dunlevy K	2 405.0	1 376.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	63.6	1 569.9
Dolg A[1]	130.2	119.2	108.4	112.4	85.3	122.9	120.7	128.7	141.7	142.0	92.9	112.0	1 416.5
Dolg B[1]	2 037.7	2 015.4	2 124.3	1 988.8	1 940.8	1 260.8	2 135.4	2 020.0	1 852.2	1 856.3	1 570.0	1 792.7	22 594.4
Totals	33 856.6	27 053.8	6 482.1	2 242.4	2 313.8	10 884.7	18 950.3	18 759.7	14 001.7	8 907.0	17 728.1	25 784.5	186 664.7

Buick Creek North -													
Bluesky A	3 108.7	2 932.8	779.0	--- --- -	--- --- -	935.3	2 460.5	2 779.8	696.6	350.9	600.6	2 022.3	16 664.5
Dunlevy A	1 363.4	760.7	156.0	--- --- -	--- --- -	113.8	497.4	545.0	670.6	1 315.6	767.3	743.5	6 933.3
Dunlevy B	624.5	574.2	247.0	--- --- -	--- --- -	168.7	388.2	376.8	518.0	503.9	391.4	405.5	4 198.2
Totals	5 096.6	4 267.7	1 182.0	--- --- -	--- --- -	1 215.8	3 346.1	3 701.6	1 885.2	2 170.4	1 759.3	3 171.3	27 796.0
Buick Creek West -													
Bluesky A	4 812.1	4 605.5	1 711.8	53.2	917.9	1 742.8	3 092.2	2 499.5	1 605.7	1 373.6	1 450.9	2 965.0	26 830.2
Bluesky C	318.0	349.0	85.5	--- --- -	--- --- -	52.0	126.2	129.6	145.4	162.8	171.3	331.1	1 870.9
Gething A[1]	38.6	37.1	46.1	48.1	53.9	57.1	66.5	63.5	49.2	53.0	56.7	--- --- -	569.8
Dunlevy A	904.4	361.8	267.3	--- --- -	--- --- -	3.6	14.1	--- --- -	416.0	1 022.0	678.4	741.2	4 408.8
Dunlevy B	3 759.5	3 050.5	1 821.3	140.5	--- --- -	1 562.9	3 603.7	3 596.9	3 705.8	3 646.2	3 416.0	2 989.2	31 292.5
Dunlevy D[1]	2.3	1.8	.2	3.8	3.7	3.8	3.4	2.2	--- --- -	--- --- -	.3	.5	22.0
Baldonnel A	82.5	79.9	19.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	71.3	78.1	--- --- -	331.7
Halfway A	1 967.6	1 792.7	649.4	— — -	— — -	749.1	1 286.7	1 266.7	1 536.2	1 721.5	1 447.5	1 464.9	13 882.3
Totals	11 885.0	10 278.3	4 601.5	245.6	975.5	4 171.3	8 192.8	7 558.4	7 398.7	8 110.0	7 299.2	8 491.9	79 208.2
Bullmoose													
Baldonnel A	30 777.4	29 294.1	23 797.4	21 590.1	10 274.0	--- --- -	--- --- -	--- --- -	16 778.0	19 090.1	29 060.1	31 934.7	212 595.9
Bulrush -													
Halfway A[1]	1 986.2	2 066.5	2 032.9	2 074.2	2 365.0	1 618.9	1 075.3	975.0	990.6	958.2	624.8	1 166.3	17 933.9
Halfway B[1]	96.9	63.3	77.8	54.9	67.4	59.7	69.9	58.8	52.0	39.1	— — -	— — -	639.8
Totals	2 083.1	2 129.8	2 110.7	2 129.1	2 432.4	1 678.6	1 145.2	1 033.8	1 042.6	997.3	624.8	1 166.3	18 573.7
Bulrush East -													
Halfway A[1]	68.2	93.2	60.6	40.9	29.2	20.8	20.4	16.7	10.5	8.6	6.0	5.7	380.8
Cabin -													
Slave Point B	2 795.9	2 639.8	3 060.7	2 435.7	2 439.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 047.6	2 006.7	16 424.2
Slave Point C	1 190.6	953.8	707.3	575.4	524.9	6.5	--- --- -	--- --- -	--- --- -	--- --- -	860.8	619.9	5 435.2
Slave Point D	2 214.4	1 651.1	1 058.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	835.5	2 336.9	8 096.5
Slave Point E	1 555.1	857.8	— — -	— — -	— — -	— — -	— — -	— — -	— — -	— — -	— — -	— — -	2 412.9
Totals	7 754.0	6 102.5	4 826.6	3 011.1	2 964.7	6.5	--- --- -	--- --- -	--- --- -	--- --- -	2 743.9	4 959.5	32 368.8
Cache Creek -													
Coplin A	2 203.1	3 058.3	2 052.3	1 881.3	1 375.9	--- --- -	--- --- -	--- --- -	--- --- -	30.0	1 785.9	2 583.5	14 970.3
Halfway A	9 532.2	7 533.4	2 731.1	3 461.6	1 980.4	265.3	— — -	— — -	— — -	— — -	7 650.5	8 300.0	41 454.5
Totals	11 735.3	10 591.7	4 783.4	5 342.9	3 356.3	265.3	--- --- -	--- --- -	--- --- -	30.0	9 436.4	10 883.5	56 424.8
Cecil Lake -													
Siphon A[1]	1.7	--- --- -	--- --- -	--- --- -	2.0	16.6	13.7	11.8	11.8	7.9	6.1	6.5	78.1
Cecil A[1]	75.8	91.6	96.0	25.3	93.3	90.1	88.2	80.8	76.4	85.5	85.0	80.0	968.0
Cecil B[1]	87.9	166.3	262.4	324.6	604.0	288.3	375.5	367.1	299.4	296.5	295.4	218.6	3 586.0
North Pine A	2 707.8	2 593.7	2 748.5	2 440.8	2 739.4	2 235.0	2 460.9	2 010.7	2 754.7	2 801.3	2 583.2	2 257.2	30 332.9
North Pine A[1]	1 111.6	925.6	966.2	962.9	946.1	605.4	975.5	891.5	753.3	909.9	876.1	695.8	10 579.9
North Pine B[1]	9.3	6.7	8.4	17.5	13.3	14.7	1.3	5.2	12.2	14.7	14.9	12.1	130.3
North Pine C[1]	231.3	273.0	289.0	246.3	298.4	394.5	328.5	342.7	388.7	332.8	341.5	361.6	3 828.3
Totals	4 225.4	4 056.9	4 370.5	4 017.4	4 696.3	3 644.6	4 243.6	3 709.8	4 296.5	4 448.3	4 202.2	3 591.8	49 503.5
Clarke Lake -													
Slave Point A	75 425.8	38 145.2	1 920.5	65 226.5	53 976.8	47 849.4	86 101.4	71 792.9	29 789.2	47 358.8	58 846.6	55 412.5	631 845.6

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Cassaflon -													
Baldonnel A	5 875.8	4 975.8	4 316.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	570.9	6 709.4	5 340.8	5 291.3	33 080.6
Crush -													
Halfway A[1]	243.3	234.1	294.5	244.3	230.3	187.8	231.1	247.8	241.0	224.8	188.4	241.8	2 768.4
Current -													
Halfway[1]	1 110.9	991.5	1 108.6	1 179.1	1 147.9	1 077.6	1 121.9	1 084.9	1 115.2	1 391.7	1 139.0	1 111.6	13 579.9
Current West -													
Halfway A	385.0	415.4	95.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	895.7
Duhl -													
Bluesky A	23 617.1	16 339.8	--- --- -	--- --- -	1 525.8	4 147.7	11 273.8	18 745.8	13 538.3	6 152.2	16 000.4	20 966.3	132 306.4
Dosen -													
Shunda A[1]	--- --- -	--- --- -	.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.2
Shunda B[1]	.2	--- --- -	3.2	2.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.4
Shunda C[1]	.1	.3	.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.6
Paklsko A[1]	.2	.5	2.0	1.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.9	10.1
Paklsko B[1]	--- --- -	--- --- -	.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2.5	2.9
Paklsko C[1]	--- --- -	14.1	3.2	9.4	1.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1.2	29.3
Totals	.5	14.9	9.2	12.9	1.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	9.6	48.5
Doe													
Wabamun A	850.1	800.0	868.3	543.3	81.2	--- --- -	--- --- -	444.3	--- --- -	--- --- -	17.7	784.6	4 389.5
Eagle -													
Siphon A[1]	2.2	2.6	1.4	2.8	4.2	2.3	2.8	2.4	--- --- -	--- --- -	--- --- -	--- --- -	20.7
Belloy B	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1.6	21.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	23.0
Belloy B[1]	870.8	980.2	1 060.6	1 301.4	1 316.7	1 208.8	1 087.4	1 141.7	1 321.3	1 195.3	1 113.1	1 283.6	13 882.9
Totals	873.0	982.8	1 062.0	1 304.2	1 320.9	1 212.7	1 111.6	1 144.1	1 321.3	1 195.3	1 115.1	1 283.6	13 926.6
Eagle West -													
Cecil A	635.8	570.3	524.6	243.1	319.9	27.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2 321.5
Belloy A[1]	5 065.6	4 935.0	4 895.8	4 563.3	5 325.3	5 651.6	5 619.7	5 560.4	5 628.9	5 524.9	5 250.9	5 417.8	63 439.3
Totals	5 701.4	5 505.3	5 420.5	4 806.4	5 645.2	5 679.4	5 619.7	5 560.4	5 628.9	5 524.9	5 250.9	5 417.8	65 760.8
Ekwan -													
Steve Point B	1 112.5	636.0	654.3	366.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	978.7	3 747.8
Fireweed -													
Bluesky A	2 399.5	3 060.0	1 051.2	1 125.1	1 064.3	1 267.8	485.8	452.5	727.2	709.8	1 253.3	1 649.7	15 250.2
Bluesky B	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	850.9	661.5	1 512.4
Bluesky C	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	324.8	324.8
Dunlevy A	3 517.7	3 570.9	1 524.5	2 461.4	2 430.3	2 090.0	433.8	--- --- -	--- --- -	--- --- -	--- --- -	5 244.9	5 518.5	22 792.0
Dunlevy B	2 341.1	2 524.1	1 944.0	734.1	537.8	941.3	173.3	--- --- -	--- --- -	--- --- -	890.5	1 710.0	11 796.2
Dunlevy D	2 989.5	2 705.5	560.3	1 787.8	4 644.2	4 247.5	730.0	4 151.8	4 098.7	6 032.8	5 209.0	5 699.7	42 856.8
Dunlevy D[1]	8.6	39.6	68.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	126.5	147.0	392.3
Dunlevy H	923.1	1 156.1	997.1	956.7	977.8	200.2	--- --- -	--- --- -	--- --- -	--- --- -	128.6	869.8	6 209.2
Baldonnel A	241.3	211.3	220.2	--- --- -	81.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	173.5	135.8	1 063.3
Totals	12 420.8	13 267.5	6 365.9	7 065.1	9 735.6	8 746.8	1 826.9	4 604.3	4 825.9	6 742.6	11 879.2	14 716.6	102 197.2

Flatrock -													
Siphon A	1 469.8	1 656.3	1 637.5	1 796.1	1 732.6	453.5	123.5	--- --- -	--- --- -	--- --- -	130.6	239.3	9 239.2
Boundary Lake A[1]	13.4	10.8	10.3	5.2	3.6	4.5	6.9	7.1	6.5	4.7	3.0	2.1	78.1
Boundary Lake B[1]	112.8	103.6	108.1	104.8	115.6	106.7	116.6	109.9	108.0	108.3	109.4	110.4	1 314.2
Boundary Lake C[1]	34.8	175.0	87.6	--- --- -	--- --- -	91.9	--- --- -	71.6	79.1	71.7	85.3	37.1	734.1
Halfway A	359.5	364.3	249.1	158.2	289.1	183.9	428.4	374.6	249.9	534.3	220.5	262.9	3 670.7
Halfway B	--- --- -	12.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	12.2
Halfway E[1]	1 236.5	1 138.0	987.2	1 033.1	1 318.2	1 095.8	599.0	505.8	1 148.7	1 144.8	572.7	1 253.9	12 013.7
Halfway G	1 879.7	1 838.1	720.8	269.8	589.7	462.5	--- --- -	--- --- -	1 055.2	2 584.5	1 375.4	1 347.4	12 123.1
Halfway I	1 021.0	1 119.7	1 221.5	1 065.9	1 195.5	871.2	128.6	--- --- -	--- --- -	31.0	896.5	1 023.9	8 574.8
Totals	6 123.5	6 418.0	5 022.1	4 433.1	5 244.3	3 270.0	1 403.0	1 069.0	2 647.4	4 479.3	3 393.4	4 257.0	47 760.1
Flatrock West -													
Halfway A	718.9	787.0	763.3	834.2	803.9	206.8	666.5	92.5	--- --- -	--- --- -	122.4	458.5	5 454.0
Fort St. John -													
Baldonnel A	2 342.8	2 216.2	2 181.7	1 839.6	2 349.0	1 342.2	2 064.7	1 599.8	2 430.2	1 974.8	2 642.8	2 549.6	25 529.4
Baldonnel B	18.7	16.4	87.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	122.9
North Pine A[1]	439.3	405.8	447.6	436.0	361.8	248.6	479.3	432.8	449.1	357.1	544.7	524.4	5 126.5
North Pine C[1]	94.7	88.2	--- --- -	--- --- -	--- --- -	--- --- -	72.7	69.4	103.9	91.3	49.1	--- --- -	569.3
Halfway A	545.5	497.6	479.1	465.9	423.6	236.6	421.8	335.9	477.4	371.9	548.9	471.0	5 275.2
Halfway C	1 670.1	1 517.3	2 153.4	812.4	1 026.6	363.7	1 643.7	1 695.4	1 410.8	1 670.8	1 445.6	1 677.8	17 047.6
Halfway A	633.8	649.4	605.8	589.0	622.3	338.4	484.3	436.6	588.3	553.4	612.3	569.7	6 683.5
Totals	5 744.9	5 390.9	5 955.4	4 138.9	4 783.3	2 529.5	5 166.5	4 529.9	5 459.9	5 019.3	5 843.4	5 792.5	60 354.4
Fort St. John Southeast -													
Baldonnel A	1 155.1	973.7	1 055.0	105.4	--- --- -	--- --- -	1 111.7	960.8	1 037.2	1 157.4	1 065.3	1 018.6	9 640.2
Halfway A	1 702.8	1 481.4	1 508.7	145.0	--- --- -	--- --- -	1 560.5	1 539.5	1 583.2	1 650.3	1 536.1	1 445.0	13 792.8
Halfway A	2 865.5	2 403.2	2 691.2	282.9	--- --- -	--- --- -	1 737.2	1 649.5	2 206.5	2 452.3	2 394.6	2 351.0	21 029.9
Totals	5 723.4	4 858.3	5 254.9	533.3	--- --- -	--- --- -	4 209.7	5 949.8	4 826.9	5 260.0	4 996.0	4 814.6	44 422.9
Gopher -													
Halfway A	390.1	227.2	495.8	312.5	332.8	112.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 830.6
Gote -													
Sulphur Point A	4 386.4	4 476.5	2 983.7	2 978.0	3 060.4	--- --- -	--- --- -	--- --- -	--- --- -	2 309.2	3 987.7	4 636.7	28 818.6
Grizzly North -													
Dunlevy A	4 505.8	6 571.3	6 540.6	5 794.9	3 388.7	135.6	81.6	82.4	2 457.9	7 105.2	6 176.8	6 121.4	48 962.2
Baldonnel A	4 150.5	3 772.6	3 853.0	331.3	--- --- -	--- --- -	--- --- -	--- --- -	3 675.0	5 086.8	4 200.9	3 938.4	29 008.5
Halfway A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	3 919.4	7 010.6	10 930.0
Totals	8 656.3	10 343.9	10 393.6	6 126.2	3 388.7	135.6	81.6	82.4	6 132.9	12 192.0	14 297.1	17 070.4	88 900.7
Grizzly South -													
Dunlevy A	3 861.3	4 157.9	4 002.8	345.1	644.1	--- --- -	--- --- -	--- --- -	1 018.9	5 486.2	4 314.8	3 940.4	27 771.5
Gundy Creek -													
Dunlevy A	44.5	41.1	44.8	45.8	50.1	40.7	40.0	3.4	--- --- -	--- --- -	47.9	39.9	398.2
Baldonnel B	676.0	695.1	663.1	653.2	644.6	523.7	532.2	63.8	--- --- -	--- --- -	462.3	638.6	5 952.6
Totals	720.5	736.2	707.9	699.0	694.7	564.4	572.2	67.2	--- --- -	--- --- -	510.2	678.5	9 950.8

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Gundy Creek West -													
Dunlevy A	1 216.2	1 489.4	787.8	1 216.2	1 320.3	649.8	810.6	69.4	--- --- -	--- --- -	1 132.3	1 232.5	9 924.5
Baldonnel A	144.8	663.8	189.3	18.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 016.7
Totals	1 361.0	2 153.2	977.1	1 235.0	1 320.3	649.8	810.6	69.4	--- --- -	--- --- -	1 132.3	1 232.5	10 941.2
Helmet -													
Slave Point A	25 271.9	17 020.2	18 824.5	23 641.0	20 432.4	--- --- -	--- --- -	--- --- -	--- --- -	15 967.8	21 816.6	32 023.5	174 997.9
Slave Point B	1 329.0	1 423.9	1 648.6	1 198.1	1 226.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 492.3	8 278.3
Slave Point C	469.2	240.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	544.1	709.6	778.3	2 737.8
Totals	27 066.1	18 684.7	20 473.1	24 839.1	21 658.8	--- --- -	--- --- -	--- --- -	--- --- -	16 511.9	22 526.2	34 294.1	186 014.0
Helmet North -													
Jean Marie A	2 217.1	2 164.5	2 069.3	1 770.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2 228.6	1 985.3	12 435.3
Highway -													
Bluesky	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	223.1	203.5	426.6
Dunlevy B	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	159.4	237.0	396.4
Halfway A	283.8	--- --- -	--- --- -	--- --- -	2 490.9	2 220.2	923.4	2 628.9	1 169.2	2 433.3	850.1	1 011.4	14 011.2
Halfway B	212.4	--- --- -	--- --- -	--- --- -	1 349.0	1 563.5	547.5	1 425.4	751.5	966.8	1 044.4	1 089.0	8 949.5
Totals	469.2	--- --- -	--- --- -	--- --- -	3 839.9	3 783.7	1 470.9	4 054.3	1 920.7	3 400.1	2 277.0	2 540.9	23 783.7
Hoffard -													
Slave Point A	902.0	694.3	721.8	28.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 342.9	871.7	4 561.6
Inga -													
Gething A	113.0	106.5	132.4	115.5	117.6	85.1	110.8	108.1	105.1	111.9	108.3	113.4	1 327.7
Dunlevy A	1 822.5	1 911.3	931.8	942.0	1 002.5	1 062.8	169.5	--- --- -	--- --- -	--- --- -	1 936.1	1 845.4	11 221.7
Coplin A	1 380.4	1 014.0	1 127.3	1 215.5	312.0	78.7	1 237.5	1 150.0	1 282.2	1 208.5	1 182.7	1 203.9	12 392.5
Inga A	8 856.6	10 415.8	--- --- -	8 568.7	5 736.5	6 472.8	912.0	--- --- -	--- --- -	4 140.6	13 179.2	13 941.6	72 219.8
Inga A[1]	3 025.6	2 921.2	3 087.9	2 837.4	2 830.6	2 443.6	2 707.2	2 798.9	2 749.5	2 821.2	2 612.8	2 501.9	33 337.8
Inga B[1]	34.8	45.5	92.5	37.6	41.0	28.2	24.7	24.8	24.2	17.5	34.4	103.2	488.4
Totals	15 252.9	16 414.3	5 331.9	13 716.7	10 040.2	10 171.2	5 161.5	4 081.8	4 161.0	8 299.7	18 649.5	19 707.4	130 987.9
Jedney -													
Gething A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	62.5	62.5
Baldonnel A	13 994.3	7 617.2	9 780.2	6 730.1	8 181.3	7 476.9	10 630.2	8 599.6	11 650.0	9 905.5	12 778.8	12 171.1	119 515.2
Halfway A	8 796.1	5 402.1	5 880.5	3 818.4	3 651.0	3 179.8	4 170.2	5 292.6	7 479.1	4 823.5	7 825.1	6 876.5	67 204.9
Totals	22 790.4	13 019.3	15 660.7	10 548.5	11 832.3	10 656.7	14 800.4	13 892.2	19 129.1	14 729.0	20 613.9	19 110.1	186 782.6
Julienne Creek -													
Baldonnel A	25.0	1 470.3	--- --- -	182.9	--- --- -	--- --- -	--- --- -	--- --- -	468.3	451.3	482.7	524.3	3 604.8
Halfway A	797.7	--- --- -	666.6	210.9	697.6	437.2	57.8	--- --- -	117.8	--- --- -	--- --- -	--- --- -	2 985.6
Totals	822.7	1 470.3	666.6	393.8	697.6	437.2	57.8	--- --- -	586.1	451.3	482.7	524.3	6 590.4
Julienne Creek North -													
Debolt A	435.4	412.9	--- --- -	397.4	234.1	305.7	562.3	20.1	--- --- -	--- --- -	28.0	295.2	2 491.1
Julienne Creek South -													
Debolt A	203.8	205.6	175.9	156.2	113.3	139.6	174.2	9.7	--- --- -	12.5	33.7	254.7	1 478.2

Junior -														
Slave Point A	8 459.2	4 425.4	4 250.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	3 860.1	20	995.4
Slave Point D	494.9	187.1	248.4	— — -	— — -	— — -	— — -	— — -	— — -	— — -	54.2	90.0	1	071.6
Totals	8 954.1	4 612.5	4 499.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	54.2	3 950.1	22	070.0
Klua -														
Debolt A	37.3	33.0	32.0	1.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	43.0	36.6		183.7
Slave Point B	4 694.8	4 131.8	5 121.5	3 816.4	5 269.9	1 100.1	--- --- -	--- --- -	--- --- -	2 903.4	2 637.0	4 702.5	32	377.4
Slave Point D	5 125.3	4 957.4	6 540.4	3 467.6	3 098.2	1 050.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	4 932.5	29	171.5
Slave Point E	478.9	464.0	475.9	437.0	440.4	145.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	538.7	2	980.8
Pine Point A	4 028.6	3 859.5	3 767.8	165.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	3 222.0	4 887.4	19	931.0
Pine Point B	5 129.3	4 105.2	4 486.3	123.1	— — -	— — -	— — -	— — -	— — -	— — -	501.0	3 900.1	3	530.4
Totals	19 494.2	17 550.9	20 423.9	8 011.6	6 808.5	2 296.1	--- --- -	--- --- -	--- --- -	3 404.4	9 802.1	18 628.1	106	419.8
Kobes -														
Dunlevy A	430.3	530.3	87.9	330.0	230.5	98.1	22.4	76.5	170.2	151.3	118.6	308.9	2	555.0
Charlie Lake A	651.1	426.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	179.0	1	256.5
Charlie Lake B	984.6	567.7	77.6	672.2	413.3	299.9	--- --- -	337.0	955.0	782.2	589.6	512.7	6	191.8
Charlie Lake D	169.0	126.6	--- --- -	95.3	76.8	115.4	28.1	51.2	132.8	111.5	138.2	103.5	1	148.2
Charlie Lake E	708.5	1 251.6	293.8	464.7	74.6	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	923.0	3	716.2
Halfway A	7 616.4	6 346.1	2 812.9	5 923.6	3 863.7	4 005.7	1 135.0	1 589.6	6 623.6	6 650.0	6 743.6	8 669.1	61	979.3
Debolt A	275.0	749.3	169.2	— — -	59.7	557.1	149.5	156.1	1 057.7	981.9	643.0	533.7	5	332.2
Totals	10 834.9	9 998.0	3 441.4	7 485.8	4 718.6	5 076.2	1 535.0	2 210.4	8 939.3	8 676.9	8 233.0	11 229.7	82	179.2
Kobes West -														
Inga A	968.6	779.0	637.9	716.7	767.0	399.6	96.0	--- --- -	--- --- -	--- --- -	323.7	1 133.5	6	022.0
Kotcho Lake East -														
Bluesky B	26.9	23.1	22.7	14.4	10.5	2.7	--- --- -	--- --- -	--- --- -	19.4	23.9	26.9		170.5
Slave Point B	2 027.2	1 107.8	192.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	915.9	4	243.0
Slave Point C	9 113.2	4 548.7	6 371.6	6 113.6	5 343.4	1 760.3	— — -	— — -	— — -	5 937.3	7 018.8	5 051.6	51	298.5
Totals	11 167.3	5 679.6	6 586.4	6 128.0	5 353.9	1 763.0	--- --- -	--- --- -	--- --- -	5 956.7	7 042.7	5 994.4	55	672.0
Laprise -														
Gething A	133.9	209.8	--- --- -	--- --- -	--- --- -	30.1	61.8	121.4	94.5	--- --- -	124.3	172.2		948.0
Baldonnel A	23 268.0	22 775.7	6 787.3	--- --- -	4 782.2	14 469.9	41 919.5	27 626.2	43 628.7	26 655.7	46 948.8	50 610.8	309	472.8
Baldonnel B	6 289.8	1 913.0	2 772.2	8 790.9	3 135.8	10 231.5	15 059.7	14 852.5	9 582.4	4 007.8	14 836.9	13 496.3	104	966.8
Nancy A	247.7	219.7	— — -	— — -	43.9	114.6	198.0	210.4	254.1	249.7	244.7	200.3	1	983.1
Totals	29 939.4	25 118.2	9 559.5	8 790.9	7 959.9	24 846.1	57 239.0	42 810.5	53 559.7	30 913.2	62 154.7	64 479.6	417	370.7
Laprise Creek West -														
Baldonnel A	518.1	448.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	161.1	144.7	576.9	2	208.3
Louise -														
Slave Point A	2 064.1	2 253.5	2 273.2	1 583.6	1 709.3	.7	--- --- -	--- --- -	--- --- -	845.8	895.6	1 304.8	12	930.6
Mel -														
Slave Point A	7 454.9	6 745.2	6 813.7	289.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	4 774.1	7 168.3	33	245.9

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Mica -													
Mica A[1]	151.0	181.9	168.9	56.9	156.9	149.2	189.6	156.6	146.9	179.8	134.9	198.7	1 811.0
North Pine A[1]	43.4	45.1	33.8	19.8	30.7	41.1	35.6	24.6	40.8	42.7	25.4	38.0	421.0
Totals	194.4	227.0	202.7	76.7	187.5	190.3	225.2	181.2	187.[illegible]	222.5	160.2	196.7	2 232.0
Mike -													
Gething A[1]	417.0	131.9	41.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	92.4	683.1
Milligan Creek -													
Gething A	74.7	71.6	80.3	76.1	75.9	67.6	75.3	74.4	72.7	75.6	76.8	70.2	895.2
Gething B[1]	65.1	58.0	55.3	35.0	68.2	45.0	82.2	56.7	78.0	77.5	15.2	49.6	661.8
Halfway A[1]	1 737.5	1 608.2	1 543.2	1 946.7	2 220.5	2 125.8	2 245.0	2 619.0	2 539.0	2 569.9	2 404.7	3 032.0	26 991.5
Totals	1 877.3	1 737.8	1 656.8	2 057.8	2 364.6	2 238.4	2 402.5	2 750.[illegible]	2 689.7	2 723.0	2 496.7	3 151.8	28 148.5
Milligan Creek West -													
Halfway A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	5.0
Monias -													
Halfway A	21 009.8	6 035.0	19 029.9	25 245.3	15 538.3	18 621.7	12 996.3	27 009.9	15 178.9	7 067.6	10 852.3	22 109.2	200 686.2
Halfway B	1 221.4	558.4	951.3	1 890.7	1 146.4	1 360.8	498.9	1 367.8	879.5	--- --- -	1 430.0	1 483.3	13 006.9
Totals	22 231.2	6 593.4	19 981.2	27 136.0	16 684.7	19 982.5	13 495.2	28 573.7	16 076.4	7 067.6	12 282.3	23 588.5	213 692.7
Nettle -													
Gething A[1]	758.3	774.4	.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	444.3	1 978.1
Siphon A	1 513.0	48.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 561.8
Halfway A	820.0	700.7	--- --- -	--- --- -	--- --- -	660.3	1 600.5	1 670.3	508.7	--- --- -	253.1	1 115.6	7 329.2
Totals	3 092.3	1 523.9	.1	--- --- -	--- --- -	660.3	1 600.5	1 670.3	508.7	--- --- -	253.1	1 559.9	10 869.1
Nig Creek -													
Baldonnel A	14 859.1	15 619.9	1 797.3	12.3	6.9	4 591.7	14 094.4	8 881.9	12 931.9	2 448.2	9 096.3	15 096.1	99 436.0
North Pine -													
North Pine B	843.7	989.2	1 196.4	270.6	9.7	176.7	383.0	409.7	647.9	243.0	740.4	854.7	6 774.0
North Pine B[1]	503.1	520.7	258.2	442.1	458.3	483.6	495.6	438.7	574.0	453.0	504.5	505.6	5 637.4
Totals	1 346.8	1 509.9	1 454.6	712.7	468.0	660.3	888.6	848.4	1 221.9	696.0	1 244.9	1 360.3	12 411.4
Oak -													
Cecil B[1]	5.7	6.8	6.0	6.2	8.5	6.6	6.7	9.5	7.2	7.2	9.9	6.4	78.9
Halfway A	9 042.5	9 012.0	5 136.5	6 780.9	6 592.9	5 918.0	952.6	5 330.1	1 545.4	--- --- -	6 185.7	8 063.3	93 338.7
Halfway B[1]	276.0	329.0	357.9	444.1	403.2	247.6	371.2	298.1	433.0	354.2	250.1	458.6	4 223.0
Totals	8 324.0	3 345.8	3 500.4	7 231.2	6 802.6	4 172.2	1 310.5	5 637.5	1 985.6	361.4	6 441.7	8 528.3	57 641.2
Osprey -													
Bluesky A	1 105.5	1 023.6	743.2	521.8	163.6	32.0	56.9	--- --- -	--- --- -	--- --- -	5.9	777.0	4 229.4
Gething A	608.6	574.3	165.4	182.2	495.6	179.5	--- --- -	--- --- -	--- --- -	--- --- -	25.0	586.0	2 810.6
Halfway A	99.4	--- --- -	--- --- -	--- --- -	--- --- -	1 839.9	2 156.1	1 155.7	1 729.8	1 464.2	--- --- -	--- --- -	8 445.1
Halfway A[1]	388.1	300.5	315.7	306.6	283.9	155.6	247.9	233.4	216.3	170.6	199.0	158.6	2 970.2
Totals	2 197.6	1 898.4	1 222.3	810.6	943.1	2 203.0	2 460.8	1 389.1	1 946.1	1 634.8	223.9	1 521.6	18 451.3

Paradise -													
Halfway A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	85.4	825.6	645.1	475.8	315.4	2 345.3
Parkland -													
Nabesna A	9 129.3	6 194.9	--- --- -	4 272.4	1 462.4	5 115.9	7 194.9	7 169.0	7 628.7	5 551.1	9 701.8	9 900.9	71 100.4
Peejay -													
Gething A	781.3	698.3	366.3	695.4	698.3	965.4	443.7	692.9	675.7	695.0	567.6	657.7	7 418.0
Baldonnel A	816.5	664.0	458.4	754.2	725.2	960.2	452.2	1 000.8	987.2	922.8	725.3	937.2	8 990.8
Halfway	836.1	689.1	556.5	795.7	698.9	696.2	538.6	698.7	758.9	708.8	969.6	681.7	7 928.7
Halfway[1]	1 359.2	1 393.5	1 166.2	1 511.3	1 576.2	1 456.5	1 433.3	1 401.0	1 303.8	1 218.6	1 134.9	1 222.1	16 179.6
Halfway K	152.6	157.4	74.1	142.2	107.2	87.7	70.0	131.3	106.3	144.5	115.9	119.4	1 408.6
Halfway L[1]	182.7	180.6	205.6	229.5	182.3	154.0	165.3	275.5	299.7	256.5	258.5	261.4	2 822.6
Halfway M	790.6	826.1	362.7	746.9	714.1	537.7	107.0	--- --- -	--- --- -	17.7	73.4	739.3	4 917.9
Totals	4 902.8	4 571.0	2 952.8	4 882.4	4 702.1	5 865.9	5 207.1	4 208.2	4 132.6	5 901.9	5 436.2	4 604.8	49 651.8
Peejay West -													
Halfway A[1]	1 646.6	1 193.2	1 470.2	1 531.3	1 413.1	850.2	1 290.6	1 618.7	1 862.7	1 937.9	1 969.4	1 490.0	18 032.9
Pichell -													
Halfway A	--- --- -	1 656.4	973.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2 809.4
Pietoli-													
Coplin A[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	66.1	18.4	84.5
Red Creek -													
Halfway A	485.9	898.6	998.2	--- --- -	--- --- -	--- --- -	--- --- -	111.7	185.5	108.9	79.8	122.4	2 890.8
Rigel -													
Bluesky A	356.1	95.7	28.0	--- --- -	97.5	189.0	754.7	--- --- -	--- --- -	--- --- -	165.9	99.0	1 785.9
Dunlevy A[1]	657.5	412.5	414.7	296.7	290.3	266.9	356.1	556.4	471.4	475.9	450.1	725.7	5 051.6
Dunlevy B[1]	334.5	48.5	--- --- -	--- --- -	--- --- -	84.9	298.1	524.9	298.9	189.1	220.7	306.9	2 086.9
Dunlevy E[1]	368.9	364.7	405.7	375.9	264.9	190.8	85.8	84.6	68.0	112.9	92.2	--- --- -	2 505.1
Dunlevy F	38 380.1	10 291.1	1 492.2	463.9	5 661.2	18 345.6	26 694.8	22 839.6	23 809.9	8 090.2	30 367.5	32 836.1	219 299.2
Totals	39 897.1	11 170.1	2 340.6	1 076.5	6 273.0	19 006.8	28 171.1	25 805.5	24 629.2	8 867.7	31 274.4	33 928.7	230 445.7
Rigel East -													
Gething A	4 093.0	5 907.6	2 957.8	2 741.1	1 463.8	481.4	--- --- -	--- --- -	--- --- -	--- --- -	1 581.4	5 954.9	30 985.8
Roger -													
Pine Point A	15 268.8	14 819.2	449.3	11 523.8	13 376.9	990.8	16 694.9	17 283.4	8 586.9	7 630.9	12 571.2	19 973.6	143 774.2
Sahtaneh -													
Pine Point A	15 861.4	14 414.9	12 080.4	12 246.2	12 293.2	4 674.4	--- --- -	--- --- -	--- --- -	2 925.7	12 860.9	10 289.4	98 874.6
Pine Point B	13 576.5	12 369.2	11 118.5	11 022.4	10 025.7	2 736.1	--- --- -	--- --- -	--- --- -	2 298.6	9 859.3	9 508.7	82 515.0
Totals	29 657.9	26 783.2	23 198.9	23 268.6	22 317.9	7 410.5	--- --- -	--- --- -	--- --- -	5 224.3	22 720.2	19 798.1	179 334.6
Sierre -													
Steve Point A	9 481.1	9 615.7	9 221.4	167.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	3 795.7	30 298.4
Pine Point A	98 046.5	77 452.0	72 239.0	78 975.5	67 361.2	25 063.5	--- --- -	--- --- -	--- --- -	12 370.0	61 448.9	89 762.0	115 672.1	698 371.2
Pine Point B	29 348.7	33 576.9	27 768.2	22 440.0	35 658.7	12 382.4	--- --- -	--- --- -	--- --- -	6 750.6	30 389.6	33 948.2	99 697.2	393 923.1
Pine Point C	22 898.9	22 735.2	21 585.2	22 009.0	7 693.8	4 91.5.5	--- --- -	--- --- -	--- --- -	5 476.2	17 036.1	17 514.2	25 479.2	167 139.5
Pine Point D	20 000.0	22 054.9	17 401.8	11 457.5	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	10 092.8	18 093.7	27 766.1	126 786.8
Totals	171 775.2	161 412.3	154 215.6	135 029.3	110 714.7	42 361.2	--- --- -	--- --- -	--- --- -	24 596.8	118 924.4	148 680.0	228 966.5	1 306 074.8

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in $10^3_e m^3$ at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Silver -													
Bluesky A	16 675.4	9 897.3	--- --- -	--- --- -	--- --- -	3 671.0	7 216.9	7 202.2	9 443.0	284.8	11 131.1	14 469.3	80 071.4
Bluesky B	1 088.9	9.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	615.5	504.3	--- --- -	613.0	1 174.7	4 006.3
Totals	17 764.3	9 907.2	--- --- -	--- --- -	--- --- -	3 671.0	7 216.9	7 897.7	9 948.1	284.8	11 744.1	15 644.0	84 077.7
Silverberry -													
North Pine A	1 022.1	815.9	656.9	61.7	--- --- -	--- --- -	921.3	624.1	150.0	--- --- -	120.7	994.2	4 856.9
Siphon -													
Dunlevy A	4 282.3	5 406.6	5 063.3	--- --- -	--- --- -	1 540.2	995.9	1 732.0	2 706.1	2 268.6	--- --- -	3 321.2	22 896.2
Dunlevy C[1]	6.1	6.1	5.8	7.5	6.8	6.9	6.9	6.1	6.8	5.4	6.8	8.9	75.1
Baldonnel A	149.8	134.4	36.4	140.1	107.4	86.0	178.9	193.8	200.1	155.7	204.2	29.1	1 581.9
Siphon A	316.1	362.8	1 210.3	101.6	295.6	834.8	470.9	482.6	1 398.6	710.2	168.8	1 303.1	7 615.0
Halfway A	666.4	305.3	72.3	--- --- -	--- --- -	587.8	130.9	801.4	1 036.9	640.3	--- --- -	1 080.6	5 772.4
Totals	5 400.7	4 165.2	5 037.1	248.9	407.8	3 044.5	1 382.7	3 015.9	5 310.1	3 780.2	378.8	5 747.9	37 941.4
Siphon East													
Bluesky A	5 176.2	3 893.4	2 898.9	2 116.2	2 162.3	1 584.0	--- --- -	--- --- -	--- --- -	--- --- -	429.6	3 601.8	21 858.4
Bluesky A[1]	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.1	.1
Baldonnel A	15.2	16.2	7.0	3.8	4.3	5	--- --- -	--- --- -	--- --- -	--- --- -	.6	9.6	56.8
Totals	5 191.4	3 909.6	2 906.9	2 119.8	2 166.6	1 584.3	--- --- -	--- --- -	--- --- -	--- --- -	430.2	3 611.5	21 915.3
Squirrel -													
North Pine A[1]	58.4	46.2	62.3	60.0	59.0	54.6	56.9	73.4	59.0	25.9	59.0	76.1	671.2
North Pine B[1]	3.2	--- --- -	3.6	4.7	4.4	2.9	3.6	4.4	79.3	4.8	19.4	17.3	147.6
Totals	61.6	46.2	65.9	64.7	63.4	57.5	60.1	81.8	134.3	30.7	78.2	93.4	818.8
Shoddart -													
Cecil A	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	102.3	102.3
Cecil A[1]	30.0	28.3	32.7	35.9	28.2	32.2	30.0	32.7	31.8	25.4	29.8	27.2	356.2
Cecil B[1]	40.2	49.3	52.2	42.6	54.6	47.4	43.0	34.5	42.8	56.0	51.0	37.7	575.4
Cecil C[1]	417.7	378.8	230.0	242.8	298.4	194.0	206.1	170.5	171.7	163.5	210.9	240.3	3 111.9
North Pine A	99.2	129.3	163.7	35.5	49.0	33.3	--- --- -	--- --- -	--- --- -	--- --- -	183.5	188.7	890.0
Gething A	24 823.6	21 138.1	25 346.1	16 710.9	16 387.5	13 284.9	10 408.9	13 310.5	13 263.2	10 833.9	21 968.0	27 791.3	215 264.8
Gething C[1]	118.9	100.1	69.8	93.1	109.0	122.4	129.2	127.1	110.1	113.4	114.7	98.2	1 294.6
Totals	25 923.2	21 823.9	25 889.5	17 160.7	16 918.7	13 703.2	10 908.6	13 672.9	13 629.6	11 302.0	22 939.2	28 483.7	221 995.7
Shoddart South -													
Halfway A[1]	86.2	98.0	109.9	98.8	90.9	68.9	85.3	84.6	87.9	80.8	81.7	84.4	1 047.4
Halfway B	522.9	415.6	448.5	271.8	499.1	525.2	501.5	498.3	446.8	445.6	444.9	489.9	5 911.7
Totals	609.7	513.6	558.2	370.6	590.0	613.5	586.8	582.9	532.7	526.4	526.6	574.3	6 959.1
Shoddart West													
Bear Flat A[1]	268.0	215.9	197.9	223.9	61.2	120.8	12.0	15.6	6.9	--- --- -	9.8	14.8	1 127.5
Doig B[1]	72.8	27.1	23.4	16.0	27.2	24.9	21.2	20.3	33.8	36.4	32.9	18.5	304.9
Halfway A	4 771.4	4 295.0	4 674.4	4 149.5	5 029.7	3 449.3	3 654.9	3 531.1	3 719.8	5 171.9	4 423.6	4 997.3	51 456.1
Halfway B	--- --- -	--- --- -	66.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -
Halfway C[1]	939.8	992.0	1 173.0	947.9	1 200.2	1 026.4	994.5	1 207.4	1 093.9	1 168.1	1 003.8	1 039.7	12 747.3
Halfway D	73.2	87.7	31.0	--- --- -	--- --- -	8.9	79.4	6.5	--- --- -	--- --- -	73.4	47.3	409.9
Totals	6 075.3	5 567.7	6 166.0	5 337.3	6 298.3	4 630.3	4 766.6	4 776.9	4 891.9	6 377.0	5 550.7	5 717.6	68 119.6

Saluda -													
Baldonnel A	26 310.0	19 183.0	10 305.0	12 304.3	9 614.7	*** *** *	*** *** *	*** *** *	2 716.9	21 989.9	17 293.7	10 263.0	127 960.1
Baldonnel B	1 868.0	5 189.6	4 061.9	988.7	1 319.6	*** *** *	*** *** *	*** *** *	290.6	1 802.0	3 581.9	2 975.3	21 982.1
Baldonnel C	8 894.0	6 344.6	7 123.9	8 888.0	1 182.3	--- --- *	--- --- *	--- --- *	244.6	6 641.0	7 273.9	6 363.9	49 038.8
Totals	37 072.0	28 712.2	21 490.8	22 180.9	12 093.6	*** *** *	*** *** *	*** *** *	3 212.1	29 412.9	28 429.1	27 990.2	198 981.0
Taoga -													
Confidential [1]	*** *** *	.1	.2	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	.3
Tam -													
Baldonnel A	313.6	381.0	184.5	317.2	280.6	174.7	599.0	15.6	*** *** *	97.9	95.1	305.7	2 496.0
Halfway A	1 603.6	1 235.6	1 131.0	1 636.7	1 677.8	676.4	1 398.0	105.8	--- --- *	235.7	208.3	1 961.3	11 998.4
Totals	1 917.2	1 616.6	1 315.5	1 951.9	1 958.7	852.1	1 731.0	119.6	*** *** *	333.6	333.6	2 267.0	14 584.6
Tompaud -													
Halfway A	916.9	662.6	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	994.4	2 133.8
Town -													
Slave Point A	329.7	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	329.7
Slave Point B	3 111.3	1 677.6	1 418.0	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	2 329.6	8 736.9
Totals	3 441.0	1 677.6	1 418.0	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	*** *** *	2 329.6	9 066.7
Two Rivers													
Baldonnel A	374.9	209.2	175.8	128.8	208.8	278.1	226.6	167.9	*** *** *	*** *** *	*** *** *	*** *** *	1 790.3
Halfway A	1 209.3	1 262.7	803.8	699.7	1 268.0	887.0	156.8	102.8	*** *** *	*** *** *	1 129.7	1 630.8	8 926.4
Halfway B [1]	95.6	125.9	--- --- *	93.2	--- --- *	69.5	76.5	52.4	93.0	87.3	73.8	88.2	711.4
Totals	1 739.8	1 577.8	1 079.6	817.7	1 475.8	1 214.6	459.9	382.9	93.0	87.3	1 199.9	1 917.0	11 388.1
Value -													
Gething A	9 221.8	7 609.8	*** *** *	*** *** *	*** *** *	2 923.2	9 069.1	6 478.0	6 841.4	8 278.9	6 799.8	9 981.3	90 275.3
Halfway A	2 011.8	771.1	--- --- *	--- --- *	--- --- *	920.9	1 752.6	1 137.0	--- --- *	--- --- *	--- --- *	1 005.8	9 598.8
Totals	11 233.6	8 456.9	*** *** *	*** *** *	*** *** *	3 843.9	6 319.9	5 615.0	6 841.4	6 278.9	6 799.8	6 987.1	57 374.1
Weasel -													
Baldonnel A	34.9	28.9	33.2	29.5	29.0	24.8	25.4	18.2	17.5	16.3	20.2	25.8	305.6
Halfway	2 115.5	--- --- *	--- --- *	1.1	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	--- --- *	2 116.6
Halfway [1]	464.5	465.7	506.9	440.8	353.8	499.4	519.8	528.3	454.8	548.6	503.9	963.0	5 849.5
Halfway B [1]	8.7	5.0	40.9	29.5	60.0	38.2	25.1	26.8	86.0	50.5	45.0	74.3	490.0
Halfway F [1]	936.3	1 521.6	910.9	150.9	236.9	536.7	796.2	1 046.5	874.1	581.7	47.5	660.4	8 519.7
Confidential [1]	--- --- *	23.0	145.6	320.9	62.1	50.9	182.4	173.9	133.4	172.4	148.9	162.5	1 576.0
Totals	3 559.8	2 044.2	1 637.5	972.7	761.8	1 150.0	1 548.9	1 793.7	1 565.8	1 371.5	765.5	1 486.0	18 657.4
Weasel West -													
Halfway A [1]	77.2	66.2	70.7	54.5	39.4	73.3	69.1	57.7	58.3	63.4	59.1	68.2	756.1
Halfway B [1]	1.9	5.4	5.8	3.7	1.3	1.5	--- --- *	.9	3.5	5.2	3.1	3.4	35.7
Totals	79.1	71.6	76.5	58.2	40.7	74.8	69.1	58.6	61.8	68.6	58.2	71.6	788.8

[1] Associated Gas

Table P10 - Monthly Non-associated and Associated Gas Production by Fields and Pools - Continued

(Volumes in 10^3m^3 at 101.325 kPa and 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Wilder -													
Halfway A	11 324.7	7 198.7	2 730.9	6 488.2	5 625.5	5 025.0	1 974.6	7 583.3	3 509.6	1 085.9	6 934.0	9 971.0	69 451.4
Wildmint -													
Bluesky A	198.7	173.6	202.4	190.9	194.7	187.4	168.2	168.9	197.1	154.6	192.1	201.2	2 190.8
Upper Halfway A[1]	594.2	373.6	326.3	353.5	278.9	345.9	271.5	219.5	540.1	1 108.1	1 172.6	871.6	6 255.8
Halfway A	--- --- -	--- --- -	5.7	2.8	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	6.7	--- --- -	.6	15.8
Halfway A[1]	497.8	558.9	707.2	700.9	832.0	780.6	786.4	1 131.1	1 186.6	1 308.2	1 458.2	1 458.0	11 418.9
Totals	1 091.7	1 106.1	1 241.6	1 248.1	1 305.6	1 318.9	1 226.1	1 519.5	1 893.8	2 575.6	2 822.9	2 531.4	19 881.3
Willow -													
Bathing A[1]	179.7	159.4	160.3	165.3	167.5	151.2	161.0	164.1	153.9	161.7	191.4	137.9	1 913.4
Halfway A	1 541.5	1 395.9	815.5	1 024.2	1 023.5	850.7	193.2	--- --- -	--- --- -	38.7	218.2	1 314.4	8 375.8
Halfway B	2 347.5	970.2	578.5	252.4	167.6	1 013.4	--- --- -	--- --- -	--- --- -	--- --- -	143.4	1 151.4	6 624.4
Totals	4 068.7	2 485.5	1 554.3	1 441.9	1 358.6	2 015.3	354.2	164.1	153.9	200.4	515.0	2 603.7	16 915.6
Wolf -													
Halfway A[1]	128.1	101.7	110.0	120.2	112.6	105.4	105.0	148.6	128.3	151.6	160.2	146.6	1 519.3
Wolverine -													
Dunlevy A	296.6	15.5	.1	--- --- -	58.5	142.9	148.4	130.0	296.0	160.6	--- --- -	--- --- -	1 249.6
Woodrush -													
Halfway A	5 620.9	2 088.8	1 437.2	89.4	--- --- -	--- --- -	--- --- -	--- --- -	3 027.4	3 526.6	3 226.3	3 345.0	20 362.6
Yoyo -													
Pine Point A	155 943.9	86 305.0	147 578.1	127 186.2	126 173.0	30 093.3	--- --- -	--- --- -	37 874.1	94 687.6	164 299.5	181 307.0	1 151 447.7
Pine Point B	7 128.9	6 223.9	6 145.5	233.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	4 456.0	2 872.6	27 060.0
Totals	163 072.8	92 528.9	153 723.6	127 419.3	126 173.0	30 093.3	--- --- -	--- --- -	37 874.1	94 687.6	168 755.5	184 179.6	1 178 507.7
Other Areas -													
Baldonnel	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	256.3	6 114.8	--- --- -	4 008.9	10 380.0
Septimus[1]	7.5	2.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	9.6
Inga[1]	5.5	5.2	7.0	9.8	7.5	8.5	7.1	7.2	6.4	6.1	7.5	5.7	83.6
North Pine	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	709.1	709.1
Halfway	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	326.5	--- --- -	326.5
Missisaippian[1]	--- --- -	--- --- -	.2	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.2
Pekisko[1]	--- --- -	--- --- -	.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.1
Slave Point	1 428.9	834.5	953.9	67.7	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	1 245.5	4 530.5
Confidential[1]	--- --- -	.1	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	11.9	5.5	56.9	297.5	371.9
Confidential B	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	31.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	31.0
Confidential B[1]	.1	.1	--- --- -	--- ---	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	.2
Totals	1 442.0	842.0	961.2	77.6	7.5	8.5	38.1	7.2	254.6	6 126.4	390.9	6 266.7	16 422.7
Totals -													
Non-Associated	1 081 171.1	806 503.6	653 133.7	625 977.7	549 851.6	346 392.7	358 072.4	349 526.7	396 626.7	561 375.5	915 052.1	1 134 231.5	7 777 915.3
Associated	45 679.9	44 618.2	42 698.3	41 807.6	44 885.5	41 024.2	44 018.7	44 010.5	45 398.6	46 328.4	42 532.9	46 105.7	529 108.5
Totals	1 126 851.0	851 121.8	695 832.0	667 785.3	594 737.1	387 416.9	402 091.1	393 537.2	442 025.3	607 703.9	957 585.0	1 180 337.2	8 307 023.8

[1] Associated Gas

Table P11 - Monthly Supply and Disposition of Crude Oil/Pentanes Plus, 1984

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
British Columbia Production													
Crude Oil	179 994.2	171 796.6	177 170.2	178 230.5	175 483.3	168 706.3	173 256.8	173 449.0	175 690.1	176 557.1	167 758.1	174 402.7	2 094 195.6
Field Condensate	2 565.2	2 157.5	1 932.1	1 939.3	1 058.2	1 000.5	1 043.0	959.0	819.7	839.5	1 098.6	1 485.3	14 102.3
Plant Condensate	16 434.4	13 609.2	7 152.7	8 170.7	6 139.9	7 275.9	11 965.2	10 554.4	10 864.2	8 299.1	14 612.0	16 369.9	131 440.8
Total British Columbia	198 593.8	187 563.3	186 264.6	187 940.5	182 681.4	176 982.7	186 265.0	184 962.4	185 374.0	185 695.7	183 469.7	192 257.7	2 239 698.7
Alberta Imports													
Pipeline	557 490.3	493 578.7	643 140.8	721 978.2	762 622.3	552 378.4	576 857.8	519 778.7	582 287.5	506 347.2	515 684.3	566 242.0	6 998 366.2
Rail	4 446.0	3 402.0	4 101.9	4 075.2	--- --- -	--- --- -	4 752.6	3 071.3	2 366.7	3 678.0	3 680.5	4 402.8	37 977.0
Total Alberta	561 936.3	496 980.7	647 242.7	726 053.4	762 622.3	552 378.4	581 590.4	522 850.0	584 654.2	510 025.2	519 364.8	570 644.8	7 036 343.2
Total Supply	760 530.1	684 544.0	833 507.3	913 993.9	945 303.7	729 361.1	767 855.4	707 812.4	770 028.2	695 720.9	702 834.5	762 902.5	9 276 041.9
DISPOSITION													
Inventory Changes -													
Field	744.9	- 1 968.9	- 505.8	1 573.5	890.6	- 1 214.9	- 651.9	887.3	- 883.3	269.0	- 492.5	- 929.1	- 2 281.1
Plant	- 14.1	- 3 636.0	- 3 538.5	2 749.7	- 824.8	- 435.2	5 025.3	- 6 509.4	4 541.2	- 1 906.4	3 811.2	10.4	- 722.6
Transportation	-11 278.7	-21 163.2	43 316.7	-12 546.2	-87 728.1	- 7 358.8	9 818.2	-44 595.3	92 144.2	-20 115.7	-22 313.7	63 547.7	-28 272.9
Totals	-10 547.9	-26 768.1	39 272.4	- 8 223.0	-87 662.3	- 9 008.7	14 191.6	-50 213.4	95 802.1	-21 753.1	-18 995.0	62 629.0	-31 276.6
Losses and Adjustments -													
Field	- 525.0	112.6	- 194.7	- 252.2	- 538.1	4 961.5	- 1 085.7	- 422.7	- 1 197.8	2 073.0	- 608.2	1 487.2	3 808.9
Plant	--- --- -	- 9.4	- 8.8	--- --- -	15.5	15.0	301.0	--- --- -	--- --- -	- 505.8	43.5	31.1	- 114.1
Transportation	- 2 328.4	- 2 255.7	375.9	2 444.2	- 740.4	- 409.5	1 802.5	928.5	- 2 617.2	- 2 383.5	- 307.4	- 3 909.5	- 9 596.6
Totals	- 2 853.4	- 2 148.5	172.4	2 192.0	- 1 264.0	4 567.0	1 017.6	505.9	- 3 815.0	- 1 016.3	- 872.3	- 2 387.2	- 5 901.8
Transfers	- 424.5	- 504.0	- 95.0	916.1	- 9.1	1 952.0	1 202.2	6 492.4	13.9	3 703.1	36.9	7.5	12 891.5
Deliveries													
To British Columbia refineries -													
British Columbia Production	209 435.6	220 918.3	205 302.1	209 628.8	181 397.5	163 702.9	228 866.2	211 259.7	153 808.5	201 944.1	192 893.3	164 110.2	2 337 267.2
Alberta Production	443 037.0	423 182.6	467 307.6	477 070.9	473 426.6	509 770.5	458 647.0	497 425.3	490 621.3	492 911.3	520 909.0	504 810.7	5 759 119.8
Totals	652 472.6	644 100.9	670 609.7	682 699.7	654 824.1	673 473.4	687 513.2	708 685.0	644 429.8	694 855.4	713 802.3	668 920.9	8 096 387.0
To export -													
British Columbia Production	--- --- -	--- --- -	--- --- -	--- --- -	2 342.0	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	2 342.0
Alberta Production	105 039.2	51 946.0	115 726.8	236 745.1	339 688.7	59 702.5	56 512.4	31 457.3	66 133.0	15 364.5	--- --- -	18 756.4	1 097 971.9
Totals	105 039.2	51 946.0	115 726.8	236 745.1	342 030.7	59 702.5	56 512.4	31 457.3	66 133.0	15 364.5	--- --- -	18 756.4	1 099 413.9
Reporting Adjustment	16 843.9	17 917.7	7 821.0	64.0	7 384.3	- 1 324.9	7 418.4	10 885.2	7 464.4	4 567.3	8 862.6	14 976.1	104 527.9
Total Disposition	760 530.1	684 544.0	833 507.3	913 993.9	945 303.7	729 361.1	767 855.4	707 812.4	770 028.2	695 720.9	702 834.5	762 902.5	9 276 041.9

Table P12 - Supply and Disposition of Natural Gas in North Eastern B.C., 1984

(Volumes in 10^3m^3 at 101.325 kPa 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
British Columbia Production													
Non-Associated Gas	1 079 170.7	804 744.3	653 146.3	623 576.2	540 453.7	342 805.2	359 116.1	351 209.6	385 198.3	560 945.2	910 992.5	1 140 701.1	7 760 368.1
Associated Gas	45 229.6	43 759.8	43 056.4	44 209.4	53 102.7	44 623.0	43 624.1	42 279.2	55 785.1	46 326.0	46 762.5	39 636.1	537 966.3
Less Injection	- 3 160.3	- 3 086.9	- 3 109.1	- 2 326.3	- 1 433.9	- 2 649.4	- 2 324.6	- 1 719.0	- 2 396.2	- 2 273.0	- 2 033.4	- 2 413.6	- 31 669.4
Net British Columbia Production	1 121 240.0	845 417.2	693 093.6	665 459.3	592 122.5	384 778.8	400 215.9	391 765.8	438 587.2	604 998.2	955 721.6	1 177 923.6	8 275 869.0
Imports to Northeastern British Columbia -													
Alberta	99 836.5	68 835.0	42 782.2	72 640.6	57 038.3	28 226.2	27 337.9	34 429.5	39 455.7	36 418.9	70 316.2	71 230.8	608 550.8
Northwest Territories	31 628.3	21 739.7	22 864.7	21 998.7	11 286.4	9 286.4	-- --- -	-- --- -	6 220.0	22 616.7	23 140.0	21 720.5	192 077.4
Yukon	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -
Total Imports	131 464.8	90 574.7	65 646.9	94 639.3	68 324.7	37 494.6	27 337.9	34 429.5	45 675.7	59 035.6	93 456.2	92 951.3	798 628.2
Total Supply	1 252 704.8	913 985.9	758 740.5	759 698.6	660 447.2	422 273.4	427 553.8	426 195.3	484 262.9	663 933.8	1 049 180.8	1 270 874.9	9 074 493.2
DISPOSITION													
Flared -													
Field	9 068.6	8 298.1	10 651.7	8 914.8	9 191.9	11 207.1	9 163.2	8 984.6	9 786.1	9 262.2	8 834.1	10 243.7	113 206.1
Gathering System	147.6	254.0	251.1	439.8	523.6	155.4	71.8	327.5	224.9	369.5	286.6	295.2	3 327.0
Plant	1 710.6	916.4	1 239.1	1 013.2	3 902.1	7 934.9	5 494.2	1 075.1	1 691.1	1 523.3	1 725.7	2 820.2	29 976.9
Totals	10 926.8	9 468.5	12 141.9	9 967.8	13 618.6	19 297.4	12 729.2	10 387.2	11 704.1	11 155.0	10 826.4	13 389.1	145 612.0
Fuel -													
Field	13 084.2	10 993.6	9 357.6	7 694.9	7 527.6	5 695.5	6 868.9	6 889.4	7 753.7	9 788.5	11 795.0	13 687.6	111 096.5
Compressor	1 182.7	924.1	934.9	460.8	569.0	471.3	599.3	618.2	--- --- -	714.0	1 170.4	1 164.5	8 809.2
Plant	48 234/2	43 117.3	42 779.4	39 298.4	33 760.9	18 098.4	15 757.6	23 021.3	24 375.5	37 480.0	44 005.0	50 211.4	420 109.4
Totals	62 501.1	55 035.0	53 071.9	47 416.1	41 857.5	24 265.2	23 225.8	30 528.9	32 129.2	47 982.5	56 930.4	65 063.5	540 015.1
Losses and Adjustments -													
Field	14 913.5	7 930.0	- 1 981.9	3 695.5	1 699.0	4 825.1	14 496.4	1 754.1	5 107.0	- 2 593.1	724.6	11 336.6	61 906.8
Gathering System	--- --- -	32.5	18.4	--- --- -	--- --- -	155.4	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	- --- --- -	206.3
Plant	10 437.2	3 129.8	3 890.8	7 447.1	- 1 265.7	4 299.3	6 421.6	4 882.5	4 369.4	- 957.4	18 056.2	8 812.2	84 471.6
Totals	25 351.5	11 088.3	1 887.3	5 742.6	433.3	9 279.8	20 918.0	9 472.4	9 472.4	- 3 150.5	18 780.8	20 148.8	126 584.7
Line Pack	- 209.2	- 50.0	- 72.5	700.6	369.9	- 1 864.5	- 597.4	500.4	852.4	863.2	- 519.4	730.9	644.4
Processing Shrinkage	126 241.0	100 651.4	95 597.5	86 745.6	71 763.6	29 688.1	22 843.4	21 818.0	36 202.2	77 050.9	113 805.0	135 110.0	917 314.9
Reporting Adjustment	- 392.8	1 374.2	- 2 526.0	312.6	- 816.6	875.5	- 1 336.8	90.3	1 687.6	178.4	- 1 721.5	- 9 222.9	- 2 896.3
Available Marketable Gas in Northeastern -													
British Columbia	1 028 286.6	736 418.9	598 640.4	606 117.3	513 521.1	340 735.9	349 731.6	356 223.9	392 215.0	529 854.3	851 079.1	1 041 655.1	7 347 178.8
Total Disposition	1 252 704.8	913 985.9	758 740.5	759 698.6	660 447.2	422 273.4	427 553.8	426 195.3	484 262.9	663 933.8	1 049 180.8	1 270 874.9	9 074 493.2

Supply and Disposition of Gas by Transporters in British Columbia

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
Available Marketable Gas													
In Northeastern B.C.	1 028 286.6	736 418.5	598 640.4	608 817.5	513 521.1	340 735.9	349 731.6	356 223.9	392 215.0	529 854.5	851 079.1	1 041 655.1	7 347 178.8
Imports to southeastern B.C.													
Alberta	774 186.3	569 624.2	583 533.8	608 050.3	604 254.4	607 059.0	693 695.8	624 738.8	683 938.3	786 247.5	1 097 722.2	1 174 295.5	8 807 345.9
Total Supply	1 802 472.9	1 306 042.7	1 182 174.2	1 216 867.6	1 117 775.5	947 794.9	1 043 427.4	980 962.7	1 076 153.3	1 316 101.6	1 948 801.3	2 215 950.6	16 154 524.7
DISPOSITION													
Fuel	28 606.1	14 887.1	9 503.3	11 037.0	9 769.3	6 351.6	7 045.9	5 754.2	11 699.4	11 938.9	25 729.0	34 633.2	176 951.0
Losses and Adjustments	3 838.0	- 5 029.2	358.4	1 064.5	7 617.6	9 365.3	1 300.5	1 354.1	6 200.9	- 1 531.1	-12 764.3	- 7 832.2	3 942.5
Line Pack Changes	1 159.1	577.3	- 3 300.6	- 3 948.6	966.0	- 6 931.7	- 1 186.1	1 173.9	3 451.6	- 1 856.2	6 660.1	- 3 449.6	- 6 684.8
Deliveries to B.C. Distributors													
North	16 322.3	13 147.3	12 922.1	9 007.7	7 136.9	5 113.9	4 616.3	4 860.9	7 649.5	11 227.1	15 988.0	23 194.2	131 186.2
Interior	257 512.6	191 375.0	172 005.4	190 983.1	179 760.4	132 878.9	134 406.1	138 328.9	156 757.3	212 819.4	239 483.9	219 706.2	2 286 017.2
Lower Mainland	305 041.8	259 970.0	241 057.9	218 733.1	181 775.4	130 673.6	130 622.2	116 527.1	128 633.2	225 352.6	283 569.3	332 969.5	2 554 925.7
Total	578 876.7	464 492.3	425 985.4	418 723.9	368 672.7	268 666.4	269 644.6	259 716.9	293 040.0	449 399.1	539 041.2	635 869.9	4 972 129.1
Deliveries to Export -													
From British Columbia Gas	421 114.9	259 017.9	170 436.8	181 559.2	134 955.1	76 012.4	78 360.7	96 441.6	96 539.2	77 374.5	293 414.3	392 317.9	2 277 344.5
From Alberta Gas	737 679.9	541 495.0	559 974.3	583 175.8	576 385.2	584 364.6	676 800.0	603 588.6	655 988.0	755 929.6	1 070 645.3	1 134 203.3	8 480 229.6
From N.W.T. Gas	38 168.2	28 962.1	18 452.6	26 424.7	19 521.6	15 008.4	13 670.5	12 730.9	11 500.7	23 811.3	28 745.3	30 347.7	267 344.0
Total	1 196 963.0	829 475.0	748 863.7	790 959.7	730 861.9	675 385.4	768 831.2	712 761.1	764 027.9	857 115.4	1 392 804.9	1 556 868.9	11 024 918.1
Reporting Adjustment	- 6 970.0	1 640.2	764.0	- 968.9	- 112.0	- 5 042.1	- 2 208.7	202.5	- 2 266.5	1 035.5	- 2 665.6	- 138.6	- 16 731.2
Total Disposition	1 802 472.9	1 306 042.7	1 182 174.2	1 216 867.6	1 117 775.5	947 794.9	1 043 427.4	980 962.7	1 076 153.3	1 316 101.6	1 948 801.3	2 215 950.6	16 154 524.7

Supply and Disposition of Gas by Distributors in British Columbia

SUPPLY													
Natural and L.P. Gas													
From Transporters	593 274.8	466 418.1	425 219.2	411 249.0	373 348.6	271 785.2	272 649.8	262 593.8	295 916.9	453 368.8	546 228.1	650 203.8	5 022 256.1
From Storage	2 569.7	219.1	234.9	105.9	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	730.8	116.0	35 439.8	39 416.2
Other Receipts	74.3	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	--- --- -	74.3
Total Supply	595 918.8	466 637.2	425 454.1	411 354.9	373 348.6	271 785.2	272 649.8	262 593.8	295 916.9	454 099.6	546 344.1	685 643.6	5 061 746.6
DISPOSITION													
Fuel	4 230.5	1 897.2	1 746.0	2 214.2	2 856.8	1 231.2	1 804.0	1 571.8	1 826.0	2 783.5	3 089.9	3 342.0	28 593.1
Losses and Adjustments	223 651.3	-259 526.9	-222 201.8	- 51 093.6	- 25 266.8	- 48 323.6	-21 643.7	572.8	32 649.1	115 693.4	99 701.3	156 639.0	1 010.5
Line Pack Changes	79.2	78.7	391.0	- 328.3	- 143.8	- 83.3	548.4	- 424.7	203.1	- 181.6	1 265.0	127.4	1 931.1
To Storage	--- --- -	--- --- -	--- --- -	716.6	2 826.0	2 944.5	23 063.2	12 104.0	2 779.9	--- --- -	--- --- -	--- --- -	44 434.2
Sales -													
Residential	73 950.7	273 141.2	305 820.4	156 280.6	110 047.1	86 182.1	54 060.7	41 240.8	42 992.1	65 913.4	116 020.2	165 245.4	1 490 894.7
Commercial	87 811.5	299 777.8	188 503.2	122 503.6	100 059.6	74 002.3	51 166.4	41 740.2	50 142.2	73 863.2	120 003.7	192 216.1	1 361 789.8
Industrial	204 033.3	148 800.7	148 894.7	179 294.2	181 490.2	154 483.3	162 308.9	164 423.4	163 914.5	194 644.4	204 630.3	206 315.4	2 113 233.3
Electric Power	1 952.3	2 468.5	2 300.6	1 767.6	1 479.5	1 348.7	1 341.9	1 415.5	1 410.0	1 383.0	1 633.7	1 758.3	20 299.9
Total	367 747.8	724 188.2	645 518.9	459 846.0	393 076.4	316 016.4	268 877.9	248 819.9	258 458.8	335 804.3	442 287.9	525 535.2	4 986 177.7
Total Disposition	595 918.8	466 637.2	425 454.1	411 354.9	373 348.6	271 785.2	272 649.8	262 593.8	295 916.9	454 099.6	546 344.1	685 643.6	5 061 746.6
Revenue (in dollars)	$49 944 761.	112 245 874.	99 060 883.	67 162 167.	96 426 959.	46 839 814.	39 256 974.	36 420 283.	38 451 858.	48 879 359.	69 165 616.	78 784 129.	738 638 677.

Table P13 - Monthly Supply and Disposition of Propane, 1984

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
British Columbia Production													
Plant	5 848.0	5 934.9	4 138.5	4 663.0	3 921.4	3 813.0	4 936.6	4 522.5	5 288.5	5 578.8	5 664.4	5 377.4	59 687.0
Refinery	11 444.7	11 230.7	12 784.1	10 577.0	11 521.9	14 922.9	13 874.5	14 200.1	12 555.9	11 633.5	13 005.9	12 568.0	150 319.2
Total British Columbia	17 292.7	17 165.6	16 922.6	15 240.0	15 443.3	18 735.9	18 811.1	18 722.6	17 844.4	17 212.3	18 670.3	17 945.4	210 006.2
Alberta Imports	47 791.6	35 380.0	47 678.4	50 092.6	30 282.6	30 760.6	21 691.9	30 003.4	24 473.4	38 787.9	47 154.8	41 723.6	445 820.8
Total Supply	65 084.3	52 545.6	64 601.0	65 332.6	45 725.9	49 496.5	40 503.0	48 726.0	42 317.8	56 000.2	65 825.1	59 669.0	655 827.0
DISPOSITION													
Inventory	- 659.9	359.1	- 491.4	1 640.3	-1 703.6	1 575.1	- 92.0	-1 588.4	259.6	175.8	- 537.4	262.1	- 800.7
Transfers	-1 431.0	-1 468.2	-1 330.9	-1 212.8	- 853.7	- 584.1	-1 275.1	-1 633.3	-1 236.1	-1 685.4	-1 727.2	-1 681.4	-16 114.2
Losses and Adjustments	13.0	-- --- -	7.3	67.6	-- --- -	24.5	4.1	- 15.0	9.9	19.9	1.6	24.0	156.9
Sales of British Columbia Production	19 370.6	18 274.7	18 737.6	14 744.9	18 000.6	17 720.4	20 174.1	21 959.3	18 811.0	18 702.0	20 933.3	19 340.7	226 769.2
Sales of Alberta Production													
British Columbia	27 018.2	17 573.8	20 779.7	17 141.6	17 774.5	15 509.2	12 439.3	16 115.0	16 420.9	20 582.9	29 477.9	27 282.5	238 115.7
Offshore	20 773.4	17 806.2	26 898.7	32 950.8	12 508.1	15 251.4	9 052.6	13 888.4	8 052.5	18 205.0	17 676.9	14 441.1	207 705.1
Total	47 791.6	35 380.0	47 678.4	50 092.6	30 282.6	30 760.6	21 691.9	30 003.4	24 473.4	38 787.9	47 154.8	41 723.6	445 820.8
Total Sales	67 162.2	53 654.7	66 416.0	64 837.5	48 283.2	48 481.0	41 866.0	51 962.7	43 284.4	57 489.9	68 088.1	61 064.3	672 590.0
Total Disposition	65 084.3	52 545.6	64 601.0	65 332.6	45 725.9	49 496.5	40 503.0	48 726.0	42 317.8	56 000.2	65 825.1	59 669.0	655 827.0

Table P14 - Monthly Supply and Disposition of Butanes, 1984

(Volumes in m^3 at 15°C)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
British Columbia Production													
Plant	8 256.0	7 968.8	6 227.1	6 379.2	5 841.8	4 395.1	6 965.7	5 791.5	7 363.9	7 374.3	8 271.8	7 187.2	81 972.4
Refinery	1 942.0	3 203.8	2 608.4	3 803.6	6 202.3	10 264.6	11 714.9	10 682.4	5 010.7	2 195.4	628.2	113.1	58 369.4
Total British Columbia	10 198.0	11 172.6	8 835.5	10 182.8	12 044.1	14 609.7	18 680.6	16 473.9	12 374.6	9 569.7	8 900.0	7 300.3	140 341.8
Alberta Imports	1 668.8	-- --- -	-- --- -	480.9	65.5	-- --- -	-- --- -	-- --- -	-- --- -	-- ---	984.1	2 457.0	5 656.3
Total Supply	11 866.8	11 172.6	8 835.5	10 663.7	12 109.6	14 609.7	18 680.6	16 473.9	12 374.6	9 569.7	9 884.1	9 757.3	145 998.1
DISPOSITION													
Inventory Changes	- 119.4	- 121.3	- 534.1	460.1	1 240.5	769.3	- 78.5	-1 394.9	147.1	- 666.0	- 715.9	1 677.2	664.1
Transfers	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -
Gasoline Blending	5 607.8	4 792.1	5 232.4	3 625.9	3 010.5	920.0	2 475.3	1 321.0	1 996.1	4 266.3	4 597.9	3 771.9	41 617.2
Losses and Adjustments	.9	-- --- -	- 1.9	22.1	- .6	2.2	2.2	- 10.6	- 1.1	4.0	4.7	16.7	38.6
Sales of British Columbia Production	4 708.7	6 501.8	4 139.1	6 074.7	7 793.7	12 918.2	16 281.6	16 558.4	10 232.5	5 965.4	5 013.3	1 834.5	98 021.9
Sales of Alberta Production -													
British Columbia	1 668.8	-- --- -	- - --- -	480.9	65.5	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	-- --- -	984.1	2 457.0	5 656.3
Total Sales	6 377.5	6 501.8	4 139.1	6 555.6	7 859.2	12 918.2	16 281.6	16 558.4	10 232.5	5 965.4	5 997.4	4 291.5	103 678.2
Total Disposition	11 866.8	11 172.6	8 835.5	10 663.7	12 109.6	14 609.7	18 680.6	16 473.9	12 374.6	9 569.7	9 884.1	9 757.0	145 998.1

Table P15 - Monthly Supply and Disposition of Sulphur, 1984

(Volumes in Metric Tonnes)

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
SUPPLY													
British Columbia Production	38 369.9	32 609.7	30 624.4	25 567.0	17 909.9	5 907.2	3 740.3	3 985.6	11 964.2	23 087.1	36 275.5	41 148.3	271 189.1
DISPOSITION													
Inventory Storage	- 342.1	- 224.2	26.2	428.8	- 311.4	- 548.0	- 45.2	106.5	1 711.5	-1 663.5	1 243.6	263.7	645.9
Sales -													
North America	16 703.5	14 957.2	14 862.1	11 304.5	12 349.1	--- -	--- -	--- -	5 454.1	--- -	--- -	--- -	75 630.5
Offshore	22 008.5	17 876.7	15 736.1	13 833.7	5 872.2	6 455.2	3 785.5	3 879.1	4 795.6	24 750.6	35 031.9	40 884.6	194 912.7
Totals	38 712.0	32 833.9	30 598.2	25 138.2	18 221.3	6 445.2	3 785.5	3 879.1	10 252.7	24 750.6	35 031.9	40 884.6	270 543.2
Total Disposition	38 369.9	32 609.7	30 624.4	25 567.0	17 909.9	5 907.2	3 740.3	3 985.1	11 964.2	23 087.1	36 275.5	41 148.3	271 189.1

Table P16 - Crude-oil Pipelines, 1984

Company	Field Served	Size, mm	Length, km	Pumping Stations No.	Present Capacity m^3/day	Gathering Capacity	Lines km	Throughput m^3/day	Storage Capacity m^3
Canterra Energy Limited	Inga	168.3	5.1	2	1 240	--	--	120	--
		114.3	14.0	--	1 590	1 590	22.2	210	--
		88.9	3.2	1	254	--	--	45	--
Norcen Energy Resources Limited	Beatton River, Beatton River West, Boundary Lake, Bulrush, Current, Eagle, Milligan Creek, Pooley, Weasel, Wildmint, Willow, Wolf.	--	--	31	22 409	10 256[1]	52.0	4 348	22 260
		323.9	62.9	--	--	7 154[2]	--	--	--
		219.1	169.5	--	--	--	--	--	--
		168.3	72.4	--	--	--	--	--	--
		114.3	142.0	--	--	--	--	--	--
Suncor Inc.	Aitken Creek, Blueberry	323.9	3.8	--	--	--	--	--	--
		219.1	1 002.0	1	795	1 908	62.4	269	10 334
	Fort St. John	--	--	--	--	--	--	29	139
	Inga	169.3	2.7	1	1 987	1 987	--	653	--
	Stoddart	--	--	--	--	--	--	12	--
Westcoast Petroleum Ltd.		323.9	815.8	12	11 129	11 129	--	4 545	93 167

[1] Boundary Lake
[2] Terminal to Westcoast Petroleum Ltd.

Table P17 - Crude-oil Refineries, 1984

Name	Location	Type	Year of First Operation	Source of Crude	Crude Oil Capacity m^3/calendar day	Storage Capacity m^3	Cracking Plant Units	Cracking Capacity m^3/calendar day	Other Units
Chevron Canada Ltd.	North Burnaby	Complete	1936	B.C. and Alberta	5 960	309 380	Catalytic fluid	1 590	Catalytic polymerization, catalytic reformer, lube-oil blending plant, asphalt, sulphur recovery.
Gulf Canada Products Company and Petro Canada Product Inc.	Port Moody	Complete	1958	B.C. and Alberta	5 910	284 930	Catalytic fluid	1 960	Catalytic reformer, distillate, desulphurization, alkylation sulphuric acid, napthadesulphurization, merox, sulphur.
Husky Oil Operations Ltd.	Prince George	Complete	1967	B.C.	1 510	175 815	Catalytic fluid	515	Unifiner, reformer, asphalt, sulphur, gas concentration.
Imperial Oil Limited	Ioco	Complete	1915	B.C. and Alberta	6 465	485 705	Catalytic fluid	2 000	Catalytic polymerization, power-former tuluene extraction, sulphur, LPG plant, desulphurization.
Petro-Canada Products Inc.	Taylor	Complete	1960	B.C.	2 860	202 000	Catalytic fluid	980	H. F. alkylation, asphalt, pentane splitter, platformer unifiner, HDS unit, DDS unit, vacuum distillation.
Shell Canada Limited	North Burnaby	Complete	1932	B.C. and Alberta	3 820	348 000	Catalytic fluid	978	Catalytic polymerization, platformer, vacuum flashing, solvent fractination, distillate hydrotreater, sulphur recovery, asphalt.

Table P18 - Natural Gas Pipelines, 1984

Company	Source of Natural Gas	Transmission Lines		Compressor Stations		Daily Capacity 10^3m^3	Gathering and Distribution Lines		Areas Served by Distributors
		Size mm	km	No.	Power Watts 10^6		Size mm	km	
British Columbia Hydro and Power Authority	Westcoast Transmission Co. Ltd.	1 006.8	29.9	--	--	28 860.0	--	7 842.4	Lower Mainland of British Columbia
		914.4	12.8	--	--	--	--	--	
		762.0	56.3	--	--	--	--	--	
		610.0	30.0	--	--	--	--	--	
		508.0	28.9	--	--	--	--	--	
		457.0	29.6	--	--	--	--	--	
		323.9	42.1	--	--	--	--	--	
		168.3	1.9	--	--	--	--	--	
Columbia Natural Gas Limited	Alberta and Southern Gas Company Limited, Westcoast Transmission Company Limited, Inland Natural Gas Co. Ltd.	219.1	89.2	--	--	2 428.0	219.1	3.0	Cranbrook, Fernie, Kimberley, Creston, Sparwood, Elk Valley, Skookumchuck, Elko, Elkford, Yahk, Galloway, and Jaffray.
		168.3	113.7	--	--	--	168.3	8.9	
		114.3	35.1	--	--	--	114.3	21.6	
		88.9	45.2	--	--	--	88.9	42.9	
		60.3	11.4	--	--	--	60.3	125.1	
		--	--	--	--	--	42.2	148.0	
		--	--	--	--	--	26.3	1.3	
		--	--	--	--	--	--	--	
ICG Utilities Ltd.	Westcoast Transmission Co. Ltd.	168.3	0.5	--	--	338.0	114.3	36.1	Fort St. John
		114.3	33.6	--	--	--	88.9	14.0	
		88.9	7.4	--	--	--	73.0	5.8	
		60.3	3.2	--	--	--	60.3	182.0	
		--	--	--	--	--	48.3	58.7	
		--	--	--	--	--	42.2	5.1	
		--	--	--	--	--	33.4	65.3	
		--	--	--	--	--	26.7	33.0	
Inland Natural Gas Co.	Westcoast Transmission Co. Ltd.	323.9	575.3	3	4.92	6 655.0	219.1	20.6	Peace River, Prince George, Cariboo, Thompson, Okanagan, and Kootenay areas.
		273.0	191.7	--	--	--	168.3	77.9	
		219.1	53.8	--	--	--	114.3	492.9	
	Alberta and Southern Gas Co. Limited	168.3	198.1	--	--	--	88.9	169.6	
		114.3	272.6	--	--	--	60.3	1 476.1	
		88.9	113.0	--	--	--	48.3	33.3	
		60.3	147.6	--	--	--	42.2	1 144.3	
		48.3	0.2	--	--	--	--	--	
		42.2	2.3	--	--	--	--	--	
Northland Utilities (BC) Ltd.	Peace River Transmission Co.	88.9	3.2	--	--	282.0	273.1	1.2	Dawson Creek, Pouce Coupe, and Rolla.
		60.3	0.6	--	--	--	219.1	2.6	
		42.2	5.2	--	--	--	168.8	5.4	
		--	--	--	--	--	114.3	21.7	
		--	--	--	--	--	88.9	14.8	
		--	--	--	--	--	60.3	45.5	
		--	--	--	--	--	48.3	2.7	
		--	--	--	--	--	42.2	36.0	
		--	--	--	--	--	26.7	6.1	

Table P18 - Natural Gas Pipelines, 1984 - Continued

Company	Source of Natural Gas	Transmission Lines		Compressor Stations			Gathering and Distribution Lines		Areas Served by Distributors
		Size mm	km	No.	Power Watts 10^6	Daily Capacity $10^3 m^3$	Size mm	km	
Northland Utilities (BC) Ltd. (Continued)	Tumbler Ridge	114.3	26.9	--	--	--	168.8	1.2	
		88.9	11.9	--	--	--	114.3	4.0	
		60.0	3.1	--	--	--	88.9	3.3	
		--	--	--	--	--	60.3	8.9	
		--	--	--	--	--	42.2	16.3	
Pacific Northern Gas Ltd.	Westcoast Transmission Co. Ltd.	323.9	42.8	4	13.73	2 625.0	--	--	
		266.7	489.9	--	--	--	168.3	6.4	
		219.1	153.1	--	--	--	114.3	24.6	
		168.3	57.8	--	--	--	88.9	42.5	
		114.3	26.4	--	--	--	60.3	158.8	
		88.9	70.2	--	--	--	42.2	140.2	
		73.0	28.8	--	--	--	26.7	91.3	
		60.3	70.0	--	--	--	21.3	1.1	
		42.2	7.4	--	--	--	--	--	
Westcoast Transmission Co. Ltd.	Alberta	660.0	92.3	--	--	6 057.0	--	--	
	Taylor-Willow Flats	660.0	122.8	--	--	--	--	--	
		914.0	37.3	--	--	--	--	--	
	Fort Nelson-Willow Flats	660.0	359.3	4	69.65	24 173.0	--	11.3	
		914.0	74.8	--	--	--	--	--	
	Aitken Creek	--	--	--	--	--	323.9	31.4	

Table P19 - Gas-processing Plants, 1984

Operator	Location	Fields Served	Plant Type	Year of First Operation	Plant Capacity 10^3m^3/Day In	Plant Capacity 10^3m^3/Day Out	Natural Gas	Residual Gas to-
BP Exploration Canada Limited	Unit 77, Block E, NTS Map 93-P-3	Bullmoose.....	Inlet separator, Mole sieve, dehydration, DEA glycol fuel gas treating	1980	2 002	1 974	.....	Westcoast Transmission Co. Ltd.
BP Exploration Canada Limited	Unit 65, Block B, NTS Map 93-P-5	Sukunka and Sukunka West.....	Inlet separator, Mole sieve, dehydration, DEA glycol fuel gas treating	1980	2 564	2 536	.....	Westcoast Transmission Co. Ltd.
Esso Resources Canada.....	SE 1/4, Sec. 2 Tp. 85, Rge. 14 W6M	Boundary Lake.....	Inlet separator, MEA absorption, treating glycol absorption, dehydration, combined refrigeration and oil absorption, natural gas liquid recovery	1964	590	480	Propane plus mixture	Westcoast Transmission Co. Ltd.
Mobil Oil of Canada Ltd.....	Unit 91, Block D, NTS Map 94-I-14	Sierre and Sahtaneh.....	Inlet separator, dry desiccant dehyration	1969	8 761	8 705	.....	Westcoast Transmission Co. Ltd.
Oakwood Petroleums Ltd.....	Unit 74, Block G, NTS Map 93-I-15	Grizzly North, Unit 1.....	Inlet separator, TEG dehydration, inlet compression	1978	1 416	1 416	.....	Westcoast Transmission Co. Ltd.
	Unit 74, Block G, NTS Map 93-I-15	Grizzly North, Unit 2.....	Inlet separator, molecular sieve, dehydration	1980	2 400	2 400	.....	Westcoast Transmission Co. Ltd.
	Unit 25, Block A, NTS Map 93-I-15	Grizzly South.....	Inlet separator, TEG dehyrdration, inlet compression	1978	1 416	1 415	.....	Westcoast Transmission Co. Ltd.
Petro-Canada Products Inc....	Sec. 36, Tp. 82, Rge. 18, W6M	All B.C. producing gas fields except Parkland and Boundary Lake that are between 56° and 58° latitude	Inlet separator, MEA treating, dry desiccant dehyrdration, oil absorption, distillation	1957	14 200	12 900	Condensate, pentanes plus, propanes, butanes	Westcoast Transmission Co. Ltd.
Westcoast Transmission Co. Ltd.	NW 1/4 Sec. 10 Tp. 85, Rge.14, W6M	Boundary Lake.....	MEA absorption dehyrdration	1961	279	265	Condensate	Westcoast Transmission Co. Ltd.
Westcoast Transmission Co. Ltd.	Unit 85, Block G, NTS Map 94-J-10	All B.C. producing gas fields including Sierre and Sahtaneh north of 58° latitude	Potassium carbonate, MEA DEA absorption, dehydration	1965	27 750	22 654	....	Westcoast Transmission Co. Ltd.
Westcoast Transmission Co. Ltd.	Unit 85, Block D, NTS Map 93-P-12	Grizzly, Sukunka, and Bullmoose	Sulfinol gas sweetening dehydration	1980	5 400	4 250		

Table P20 - Sulphur Plants, 1984

Name	Location	Material	Principal Product	Year of First Operation	Capacity Tonnes/Day
Westcoast Transmission Co. Ltd.	Taylor	Hydrogen sulphide	Sulphur	1957	465
Westcoast Transmission Co. Ltd.	Fort Nelson	Hydrogen sulphide	Sulphur	1976	675
Westcoast Transmission Co. Ltd.	Pine River	Hydrogen sulphide	Sulphur	1980	1 075

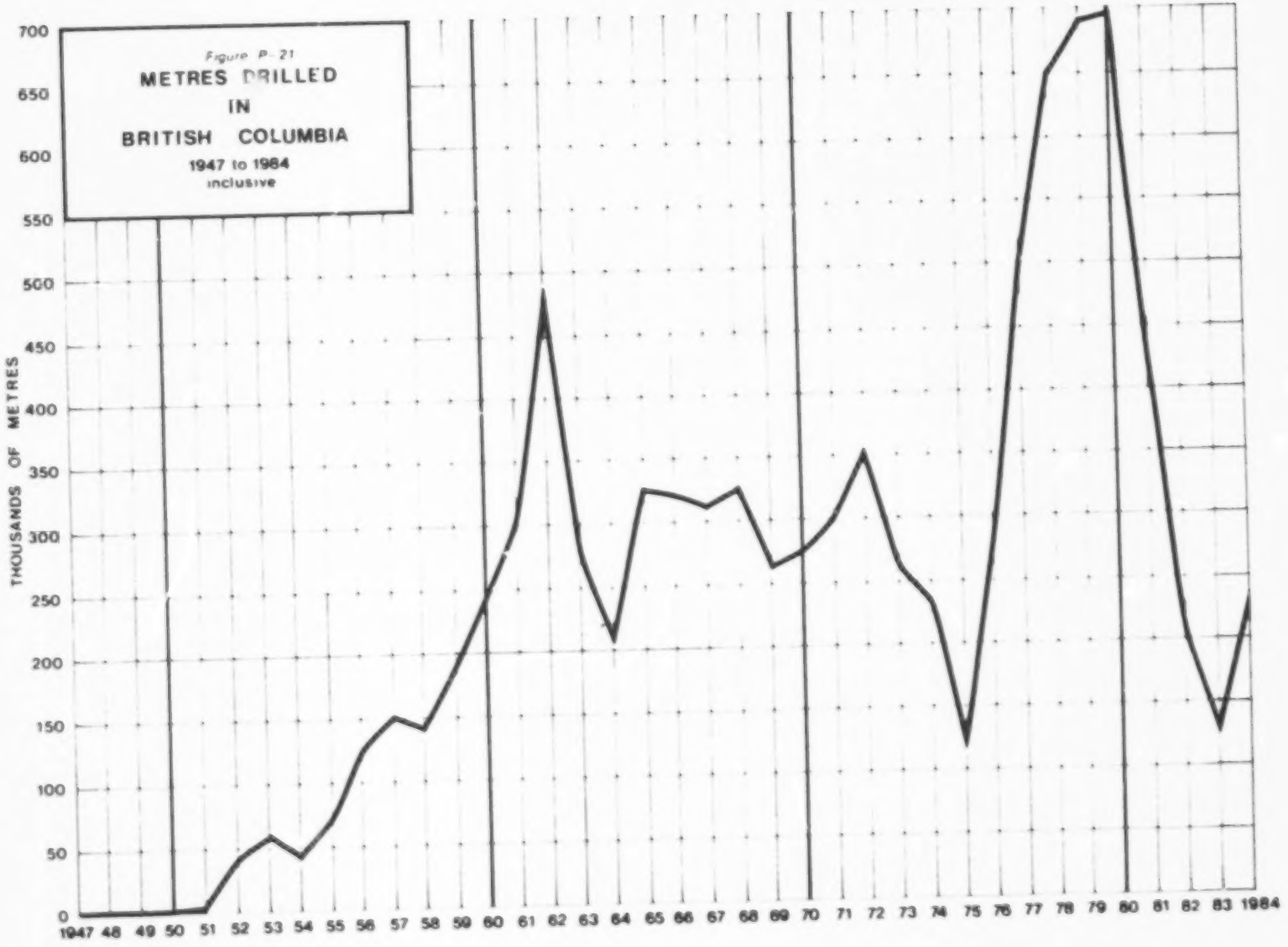


Figure P-21
METRES DRILLED
IN
BRITISH COLUMBIA
1947 to 1984
inclusive
THOUSANDS OF METRES
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
1947 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 1984

68 P22 Northeastern British Columbia Oil and Gas Fields

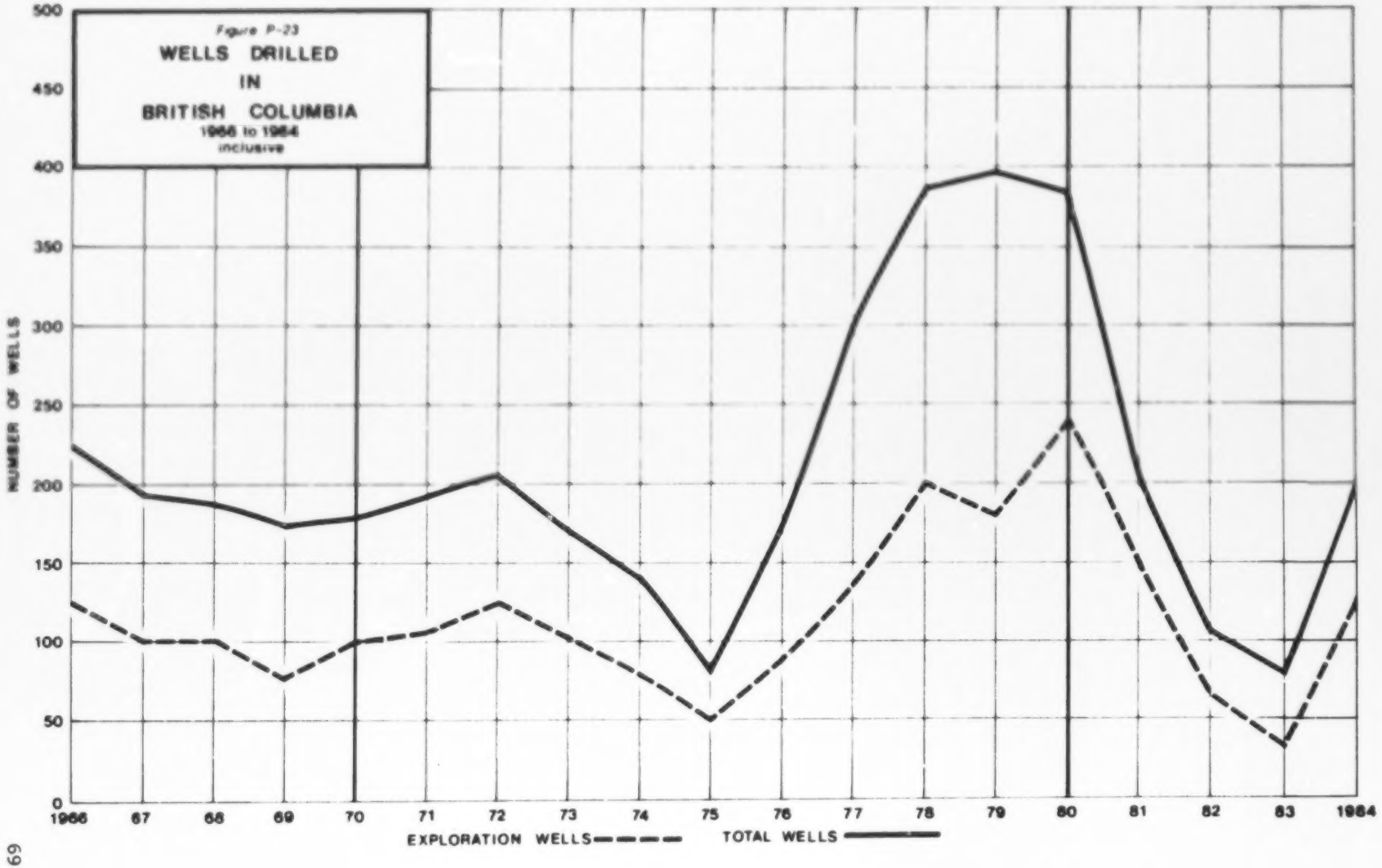
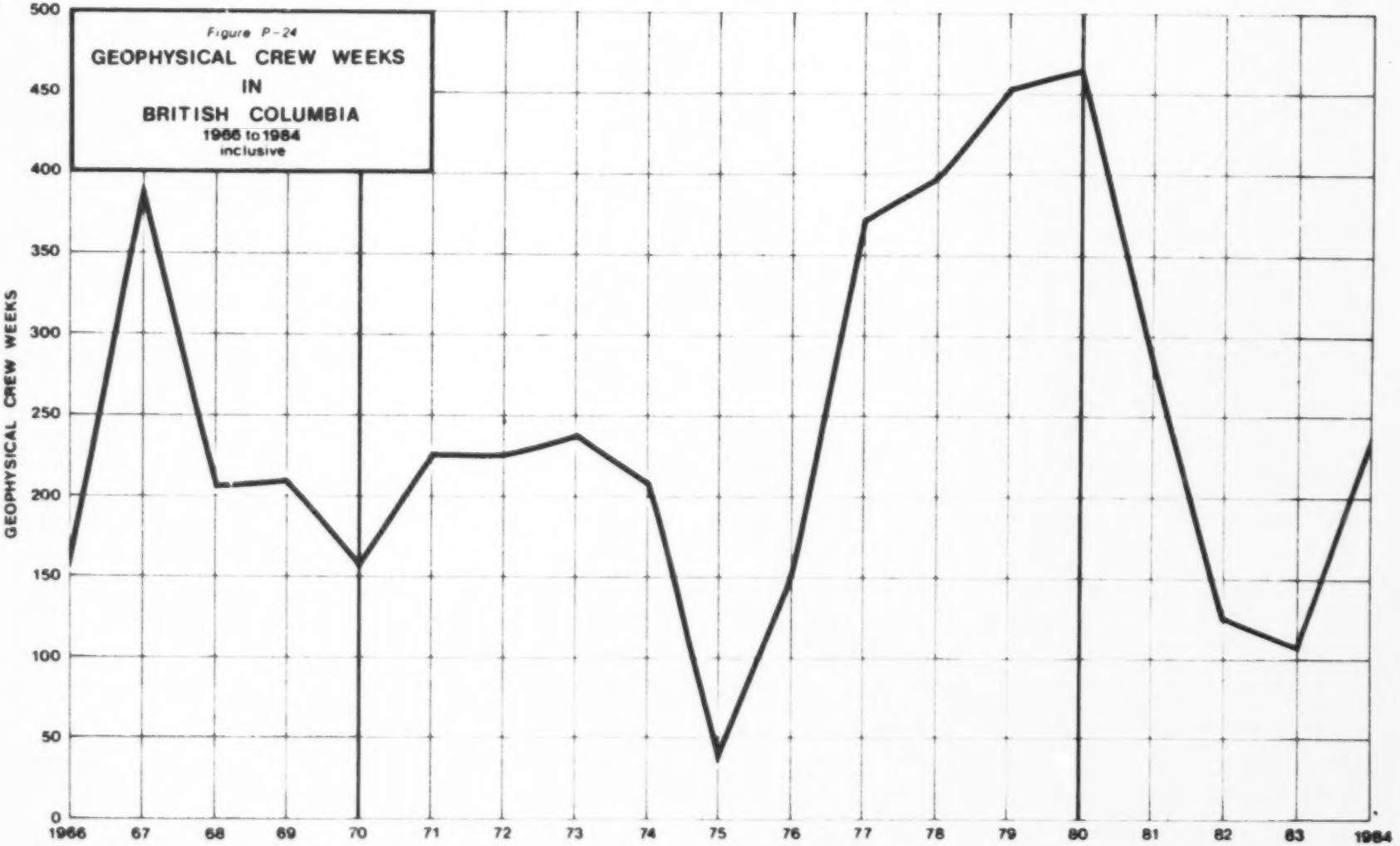


Figure P-23
WELLS DRILLED
IN
BRITISH COLUMBIA
1966 to 1984
inclusive
NUMBER OF WELLS
500
450
400
350
300
250
200
150
100
50
0
1966
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
1984
EXPLORATION WELLS
TOTAL WELLS

Figure P-24

GEOPHYSICAL CREW WEEKS IN BRITISH COLUMBIA

1966 to 1984 inclusive



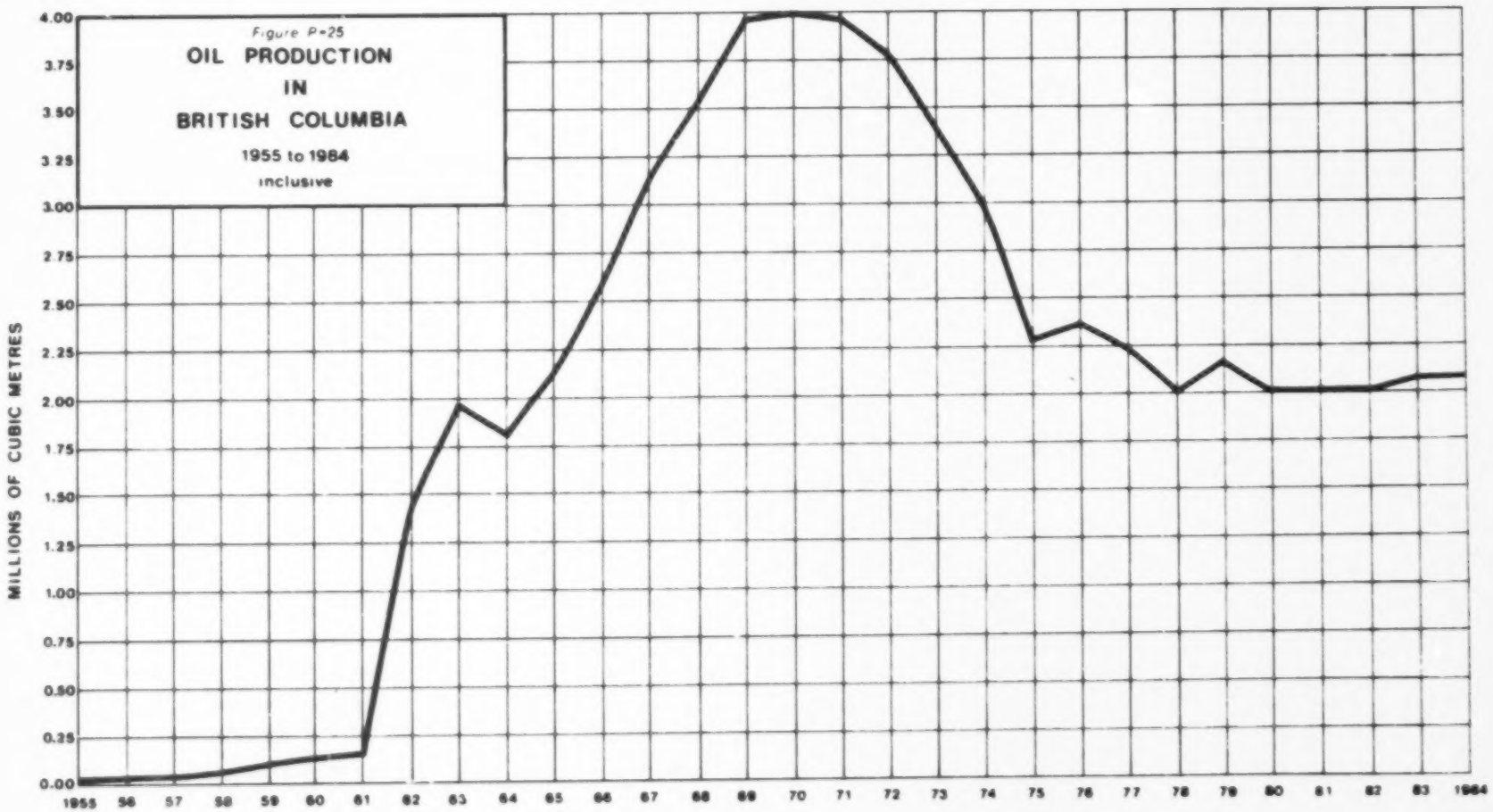
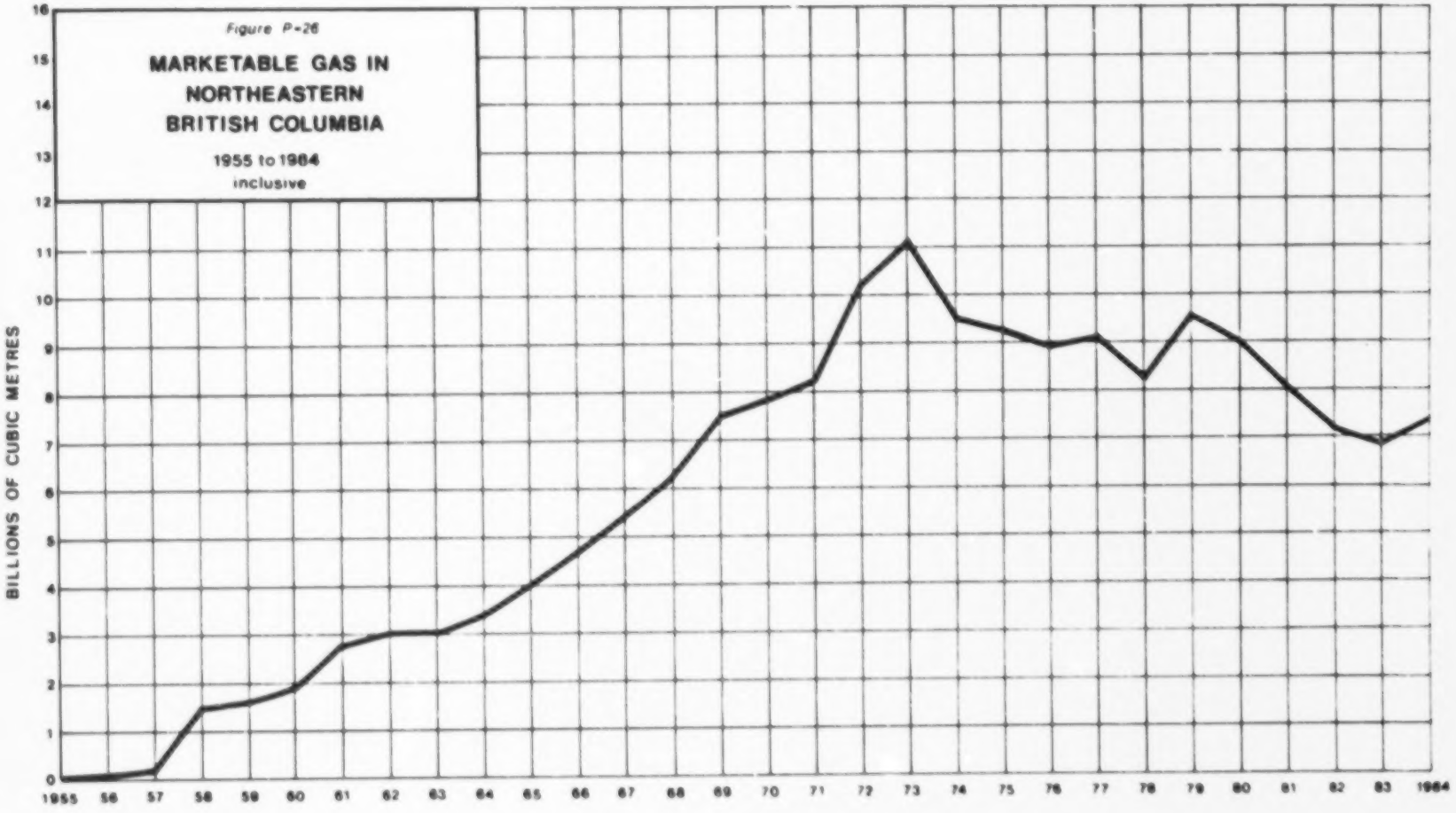


Figure P-25
OIL PRODUCTION
IN
BRITISH COLUMBIA
1955 to 1984
inclusive
MILLIONS OF CUBIC METRES
4.00
3.75
3.50
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1955 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 1984

Figure P-26

MARKETABLE GAS IN NORTHEASTERN BRITISH COLUMBIA

1955 to 1984 inclusive



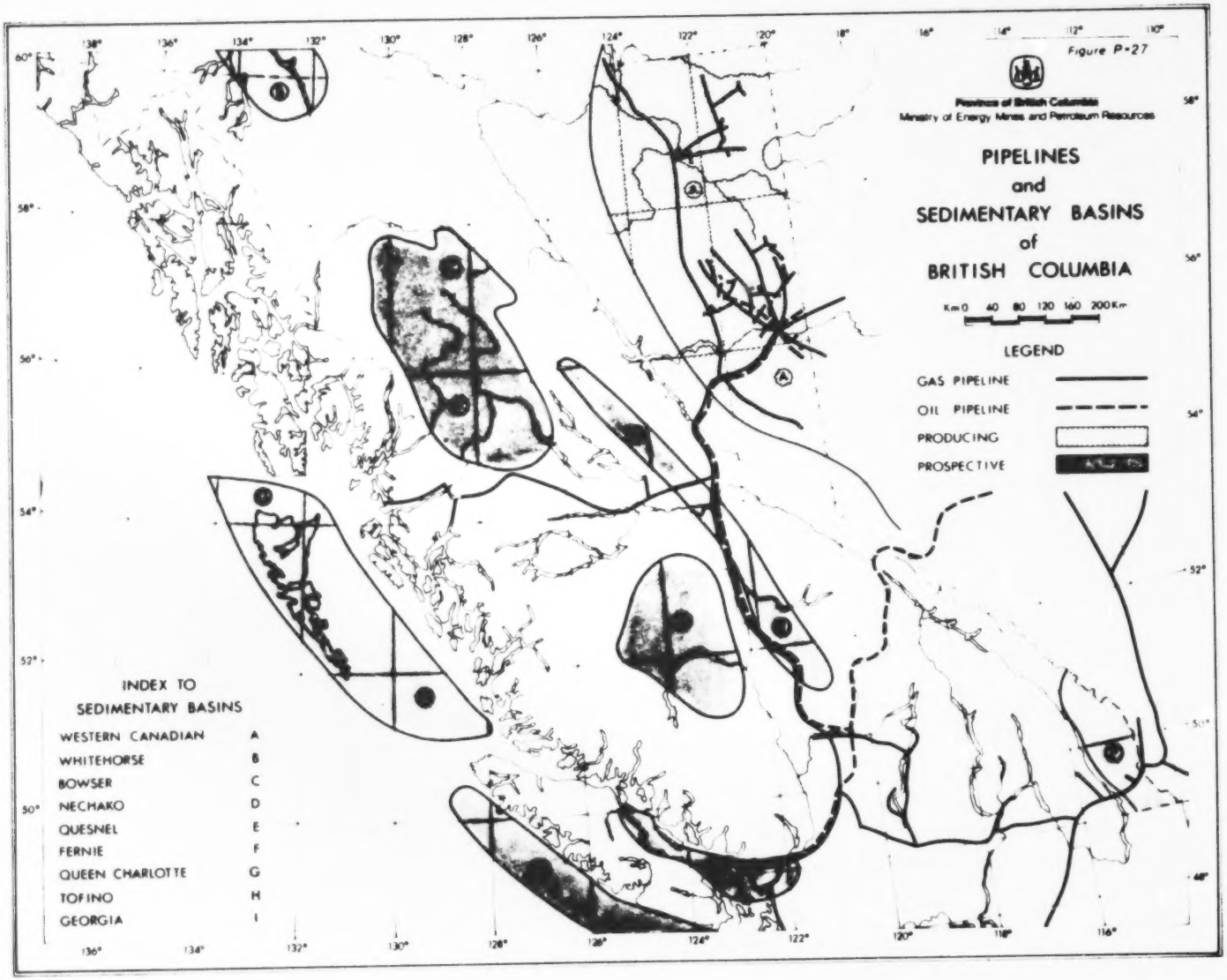
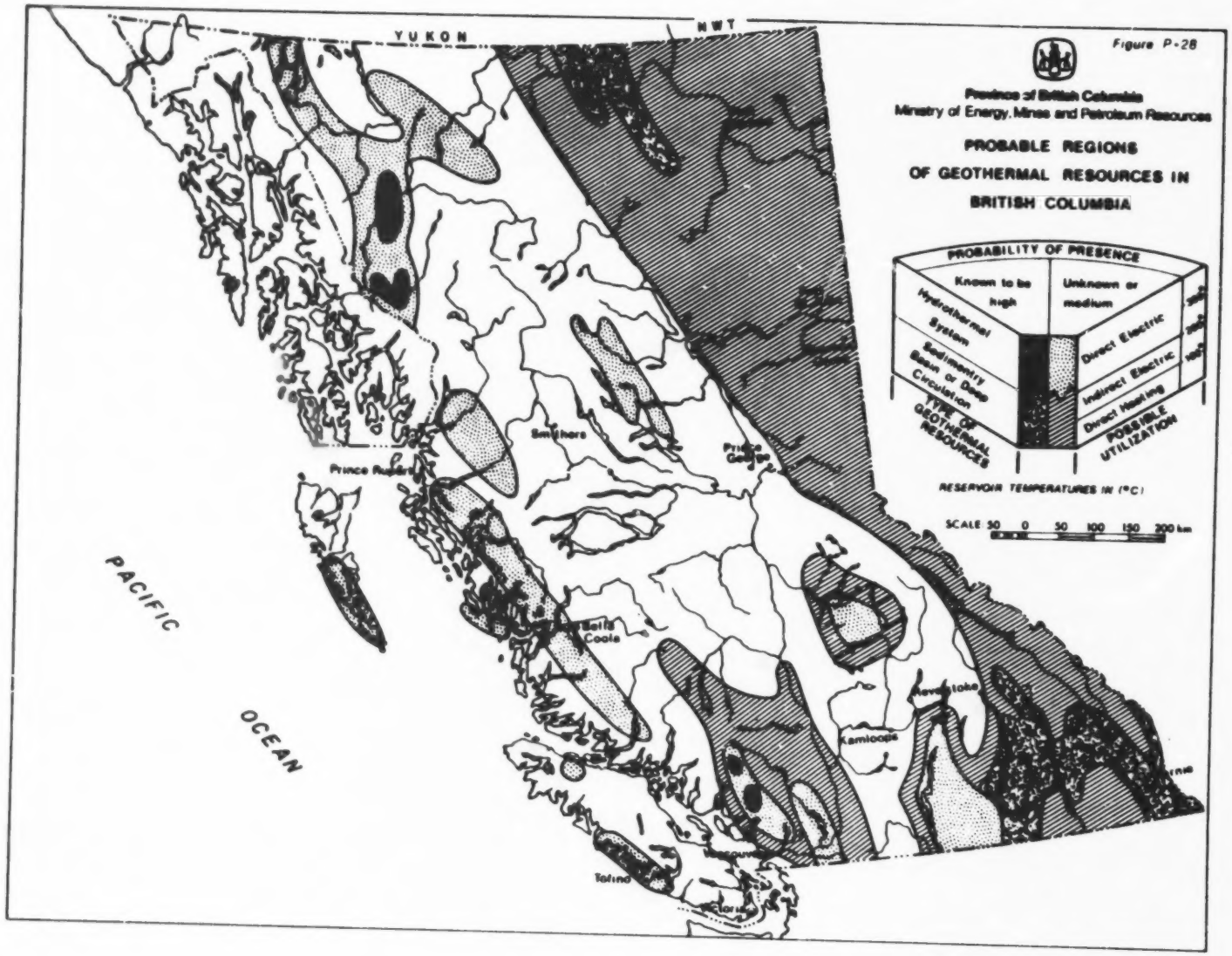


Figure P-27
Province of British Columbia
Ministry of Energy Mines and Petroleum Resources
PIPELINES
and
SEDIMENTARY BASINS
of
BRITISH COLUMBIA
Km 0 40 80 120 160 200 Km
LEGEND
GAS PIPELINE
OIL PIPELINE
PRODUCING
PROSPECTIVE
INDEX TO
SEDIMENTARY BASINS
WESTERN CANADIAN A
WHITEHORSE B
BOWSER C
NECHAKO D
QUESNEL E
FERNIE F
QUEEN CHARLOTTE G
TOFINO H
GEORGIA I


YUKON
NWT
PACIFIC
OCEAN
Smithers
Prince George
Prince Rupert
Bella Coola
Kamloops
Tofino
Figure P-28
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
PROBABLE REGIONS
OF GEOTHERMAL RESOURCES IN
BRITISH COLUMBIA
PROBABILITY OF PRESENCE
Known to be high
Unknown or medium
Hydrothermal System
Sedimentary Basin or Deep Circulation
Direct Electric
Indirect Electric
Direct Heating
TYPE OF GEOTHERMAL RESOURCES
POSSIBLE UTILIZATION
RESERVOIR TEMPERATURES IN (°C)
SCALE 50 0 50 100 150 200 km

POOR
QUALITY
ORIGINAL